

NMRA PERIODICAL INDEX



**For Periodicals Published in 1989
Date of issue: December 1990**

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This issue of the NMRA Index contains entries for Periodicals Published in 1989. This index also contains some entries for articles that were not included in earlier indexes and corrections to entries that have been brought to my attention. Several magazines that have been included in past indexes are not present this year. Each periodical that wishes to be included in the NMRA Periodical Index must supply a complimentary subscription to the Indexer responsible for the magazine. If a publisher does not wish to provide the subscription, the magazine will not be included in the Periodical Index.

Acknowledgements

The dedication and cooperation of the Periodical Index crew continues to be outstanding. A tremendous amount of time and effort goes into preparing the index for publication. The raw data supplied by the Indexers and used as the data base for the index comprised over 2.4 million characters.

The NMRA index is a subject index to articles selected for their usefulness to the model railroader. The articles were chosen from the periodicals in the following list. The primary subjects are techniques for the scale modeling of a railroad and its operations. Product reviews as well as modeling techniques and prototype information are indexed. Articles on collecting and operating toy trains, on maintenance and repair, and on the history and development of model railroading are also within its scope. Each index supplement will provide the modeler with a broad overview of information published in the model press during the year covered. The index can be supplemented by the detailed indexes issued by each periodical. Additional sources of supplementary information can be accessed through the resources available through the NMRA library and the various railroad historical associations.

Periodicals Included in the Index

Periodicals are identified with the following acronyms. Also included are the publishers name and address. Please contact the publisher for current rates.

- BL-NMRA BULLETIN, National Model Railroad Association, Inc., 4121 Cromwell Rd., Chattanooga, TN 37421.
- LQ-LOCOMOTIVE QUARTERLY, P.O. Box 383, Mount Vernon, NY 10552.
- MG-MODEL RAILROADING, Rocky Mountain Publishing, Inc. 2854 Larimer St., Denver, CO 80205
- MM-MAINLINE MODELER, Hundman Publishing, 5115 Monticello Drive, Edmonds, WA 98020.
- MR-MODEL RAILROADER, Kalmbach Publishing Co., P.O. Box 1212, Waukesha, WI 53187.
- NG-NARROW GAUGE & SHORT LINE GAZETTE, Benchmark Publications, P.O. Box 26, Los Altos, CA 94022.
- NS-N SCALE, Hundman Publishing, 5115 Monticello Drive, Edmonds, WA 98020.
- ON-O SCALE NEWS, P.O. Box 51, Elmhurst, IL 60126-0051
- OR-O SCALE RAILROADING, P.O. Box 239, Nazareth, PA 18064
- RC-RAILROAD MODEL CRAFTSMAN, Carstens Publications, Inc., P.O. Box 700, Newton, NJ 07860.
- RF-RAILFAN & RAILROAD, Carstens Publications, P.O. Box 700, Newton, NJ 07860.
- RJ-RAILMODEL JOURNAL, Golden Bell Press, 2403 Champa St., Denver, CO 80205.
- SG-S GAUGIAN, 7236 W. Madison St., Forest Park, IL 60130
- SM-Sn3 Modeler, Heimburger House Publishing Co., 310 Lathrop Ave., River Forest, IL 60305.
- TR-TRAINS, Kalmbach Publishing Co., P.O. Box 1212, Waukesha, WI 53187.

Subject Classification

Titles formed from key words are used to describe the subject of an articles. These words are generally found in the title or text of the articles. A classification system is used to group all entries on the same subject under a single heading. The Guide to the Classification System will help you locate the heading for the subject on which you wish to find information.

Changes to the Index

No changes have been made to the index since the version published in December, 1989.

Abbreviations

Abbreviations and acronyms are frequently used in the keyword titles. Separate lists of these types of terms are printed with the index. Specific terms, also abbreviated, are used to describe the contents of an article. These terms indicate the amount of detailed information the modeler can expect to find in the article, and whether drawings, and/or photographs accompany it.

CD-construction details	CM-construction method
Full CD-complete description of methods and details	SD-scale drawing
DD-detailed drawing	PS-paint scheme
FM-finishing method	PP-prototype photograph
MP-model photograph	PM-prototype map
PA-prototype article	WD-wiring diagram
LP-layout plan	BR-book review
PR-product review	O, S, HO, Z, NG, 1/4, etc., scale or gauge
VR-video review	

Index Entries

The fields included in each entry are: Keywords, Contents (description), Year and Month, Periodical (symbol), Page (number on which article begins). For example:

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
1.09 lgt dsgr principles	DD,LP	8901	BL 36

This means that an article on the principles of layout design can be found in the January 1989 issue of the NMRA BULLETIN. The article begins on page 36 of that issue and contains detailed drawings and layout plans. If a magazine does not publish monthly, the Date field will contain the year and the month indicating the first month of the period covered by the issue. For example, a quarterly publication with an issue covering January through March will be represented in the date field as 8901.

The "Guide to the Subject Classification Scheme" and the "Subject Classification Scheme" itself give details on where to look for all of the subjects that are indexed.

Committee

The 1987 NMRA Periodical Index was prepared by the following people:

- Bill O'Neill, compiler and committee chairman
- Woody Mathews - O Scale News, O Scale Railroading, Locomotive Quarterly
- Bill Cooper - Mainline Modeler
- John Worley - Model Railroader
- Robert Barclay - Railfan & Railroad, Model Railroading, NMRA Bulletin, Trains
- Larry Ackerman - Railroad Model Craftsman, N Scale
- Bill O'Neill - S Gaugian
- Ken O'Brien - Narrow Gauge & Short Line Gazette, Sn3 Modeler
- Travers Stavac - Railmodel Journal

We have worked hard to prepare an accurate and complete index. Some errors or omissions are inevitable. If you notice errors or omissions and wish to have them corrected, please contact William J. O'Neill, 11420 Bronzedale Drive, Oakton, VA 22124

Notice

If you have access to a computer, and you wish to become a member of the Periodical Index Committee, please contact Bill O'Neill at the above address.

GUIDE TO THE SUBJECT CLASSIFICATION SCHEME

The indexed information is located under one of the following general categories. The categories are subdivided into specific groups, in order that articles with information on the same topic will be found together.

TO FIND THE INFORMATION YOU WANT:

- FIRST decide which of the general categories that it will fall under;
 - THEN look for the sub-classification that specifies the required type of information;
 - SCOPE notes with subject classifications indicate topics included in, or excluded from, that classification.
 - 1) CRAFTSMEN AND THEIR RAILROADS
- Articles about model railroads subdivided into listings by scale and gauge.

Articles on the development of scale model railroads, the individual craftsmen who created them, and their family relations. Stories and humor in a model railroad setting.

2) THE CRAFTSMAN, HIS METHODS AND STANDARDS

Articles on techniques for creating models such as; soldering, tools, materials, and adhesives. Techniques of painting and model photography and information on contest winning models.

3) TRACK AND BENCHMARK

Articles on designing a toy or scale model layout. How to build roadbed, catenary, crossovers and turnouts. Locating space and preparing areas for a layout.

4) RAILROAD AND OTHER TRANSPORTATION EQUIPMENT.

Information and special techniques for modeling the various types of railroad rolling stock. Articles on modeling carts, cranes and other types of equipment used for the transportation of goods and people. How to restore rolling stock and make loads for open freight cars.

5) STRUCTURES

Techniques for modeling trestles, turntables and commercial, industrial and residential structures.

6) SCENERY

Information and special techniques for modeling mountains, waterfronts, and other geographical types of scenery. Articles on highways and commercial/industrial areas and on people and animals.

7) ELECTRICAL, ELECTRONICS AND ANIMATION

Articles on wiring techniques, power supplies, and control panels. Construction techniques and product reviews on throttles, sound systems, signals and other electrical devices.

8) OPERATION

Ideas and information on operating systems, dispatching, and tips for correcting operational problems caused by faulty track or equipment.

9) TOY/MODEL TRAIN SUPPLIES AND PUBLICATIONS

Buyer's guide and information on the history and development of toy and model train equipment. Locomotive and gear train performance tests. Book reviews.

P) PROTOTYPE INFORMATION

General information about prototype railroads, including operations that you can model. Reviews of books and videos on prototype railroads. INFORMATION ON SPECIFIC PROTOTYPES, STRUCTURES OR ROLLING STOCK IS INCLUDED UNDER THE SAME CLASSIFICATION AS INFORMATION ON HOW TO MODEL THEM.

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SUBJECT CLASSIFICATION SCHEME

1) CRAFTSMEN AND THEIR RAILROADS

1.0 History of Scale Model Railroading (See 9.0 for the Development of New Model Railroad Products)

- 1.04 Rolling Stock by one modeler
- 1.04C Car Rosters
- 1.04E Engine Rosters
- 1.05 Layout Legends
- The "Story" of a particular Model Railroad
- 1.09 Scale and Layout discussion
- 1.1 Model Railroad Organizations
- Scope: General Articles
- 1.11 History and development
- 1.12 Policies and Rules
- 1.13 Current Information
- 1.131 Directories
- 1.132 NMRA Master Model Railroaders
- 1.135 Service Awards
- 1.14 Program ideas
- 1.18 Public Display Layouts
- Scope: Planning and Construction

Model Railroads—1.2 to 1.5

—Listings in these sections are by the name of the railroad.

—If a prototype name without a distinctive division name is used, the prototype name is followed by the craftsman's

—If the railroad does not have a specific name, the name of the craftsman is used for the entry.

—For layouts that include more than one railroad, separate entries may be found in the listings.

1.2 Outdoor Model Railroads

Scope: Live Steam

1.3 Tinplate/Third Rail Railroads

Layouts with more than one gauge

- 1.31 Standard Gauge 1.32 O Gauge
- 1.33 S Gauge 1.34 HO Gauge

1.4 Standard & Mixed Gauge Railroads

See 1.5 for Narrow Gauge layouts

- 1.41 Large scale 1.42 O Scale
- 1.43 S scale 1.44 HO Scale
- 1.45 TT scale 1.46 N Scale
- 1.47 Z Scale 1.49 Other scales

1.5 Narrow or Wide Gauge Railroads

- 1.51 Large Scale 1.52 O Scale
- 1.53 S Scale 1.54 HO Scale
- 1.56 N scale 1.59 Other Scales

1.6 Dioramas and Modules

- 1.61 Large scale 1.62 O Scale
- 1.63 S scale 1.64 HO Scale
- 1.65 TT Scale 1.66 N scale
- 1.67 Z scale 1.69 Other scales

1.7 Stories in a Model Railroad Setting

Scope: Humor

For The Story of a Model Railroad see 1.05

1.8 Sociological Aspects of Model Railroad

Scope: The hobby, effect on family relations

2) THE CRAFTSMAN, HIS METHODS & STANDARDS

2.0 Introductory Articles

Scope: Model railroad; Collecting toy/model trains

- 2.01 Instructional materials & methods
- Audio-visual clinics; Courses
- 2.09 Financial aspects of Model Railroad
- Scope: Estate planning

2.1 Prototype Research

- 2.16 Photography
- 2.19 Drafting & Drawing

2.2 Recommended Modeling Practices

- 2.21 NMRA Standards
- 2.211 Conformance Warrants
- 2.22 NMRA Recommended practices & designs
- 2.23 NMRA data sheets & technical notes
- 2.25 Modular layout standards
- Scope: N-TRAK

2.3 Machines & Tools

2.4 Materials &/or Adhesives & Their Uses

2.5 Model Construction Techniques

Scope: Soldering

2.6 Model Photography and Videotaping

- 2.61 Cameras and lenses
- 2.62 Films and film processing
- 2.63 Video cameras and tapes
- 2.64 Lighting
- 2.65 Photographing models
- 2.67 Filming or videotaping models
- 2.68 Photographing layouts
- 2.69 Filming or videotaping layouts

2.7 Painting, Numbering, and Lettering Techniques

- 2.71 Painting supplies and equipment
- 2.72 Painting techniques
- 2.74 Lettering supplies
- 2.75 Lettering and striping techniques
- 2.77 Railroad Paint Schemes
- Look under particular type for specific locomotives or cars
- 2.79 Weathering techniques

2.8 Psychological Aspects of Model Railroad

Scope: Addiction to running trains

2.9 Contests

3) TRACK AND BENCHWORK

3.0 Room for a layout

3.1 Sectional track layouts

Scope: Plans, train tables

3.2 Layout Design Techniques and Plans

- 3.20 Design considerations
- 3.21 Design techniques
- Scope Transition curves
- 3.23 Plans Indexed by Model Railroad Name
- 3.24 Plans based on a Prototype Railroad
- 3.25 Plans by layout size and railroad type
- Note: The space required for the layout is indicated in feet and inches, followed by a description of the type of railroad, e.g., bridge route, on which the plan is based.
- 3.26 Plans based on Geographical Location

3.27 Plan design based on Railroad Function

3.3 Right-of-Way Construction

Scope: Benchwork; Ballasting

3.4 Turnouts; Crossovers; Crossings

3.5 Switch-Operating Devices

3.6 Third-rail Trackwork

3.7 Catenary & Trolley Wire Installation

3.8 Passenger Terminals

3.9 Yards & Servicing Facilities

Scope: Hump yards; Retarders

4) RAILROAD AND OTHER TRANSPORTATION EQUIPMENT

4.0 Passenger Train Cars

Scope: Design & construction techniques

- 4.01 Baggage, Express &/or Mail cars
- Scope: Excluding combination cars for passengers

- 4.02 Coach cars
- Scope: Excluding combination cars

- 4.03 Combination passenger cars
- Scope: Including cars with RPO, Passenger, Caboose

- 4.04 Sleeping cars
- Scope: Dormitory, Troop transport, & Colonist cars

- 4.05 Chair, Parlor, & Lounge cars
- Scope: All cars with a Dome, solarium, or observation end

- 4.06 Dining cars
- Scope: ONLY cars entirely devoted to food service

- 4.07 Special purpose cars
- Business, Private, School, or Chapel cars

- 4.08 "NAME" Trains
- Scope: Special Service Passenger Trains

- 4.09 Head End Power cars
- Scope: Cars equipped with steam or electrical generators to provide heat or electricity to cars following in train

4.1 Revenue Freight Cars

See 4.7 for Car loadings

- 4.11 Box cars
- Scope: General construction techniques

- 4.111 Single door box cars

- 4.112 Multiple door box cars
- Scope: 1 1/2, 2 & 4-door types

- 4.113 All-door box cars

Scope: Cars with doors along full length of sides, e.g., Thrall, etc.

- 4.12 Stock cars

- 4.13 Temperature control cars

- 4.131 Refrigerator cars with ice bunkers

- 4.13M Mechanical temperature control cars

- 4.13V Vented & insulated cars

- 4.14 Flat cars
- Scope: Multi-use flats: construction techniques

- 4.14A Auto-rack flats

- 4.14B Bulkhead flats

- 4.14C Container or trailer flats

- 4.14D Depressed center flats

- 4.15 Tank cars

- 4.15U Unit train tank cars

- 4.16 Gondola cars
- 4.16U Unit train gondola cars
- 4.17 Hopper cars
- 4.17C Covered hopper cars
- 4.17U Unit train hopper cars
- 4.19 Unique design revenue cars
Scope: Pickle, vinegar, Schnabel, etc.
- 4.2 Locomotives**
Scope: General & introductory articles
- 4.21 Steam Locomotives
Scope: Electrically powered or static models
- 4.210 Locomotives by prototype Railroads
Scope: Includes Models of specific prototypes
- 4.211 Locomotives by prototype Builder
Scope: Including models of specific prototypes
- 4.212 Locomotives by wheel arrangement
Scope: Excluding Models of Specific Prototypes
- 4.21L Building Large Scale Locomotives
Scope: Includes Live Steam
- 4.21M Building Model Locomotives
Scope: Including Modeling techniques; Excludes Modifying scale model Locomotives
For Models of specific prototypes See 4.210 & 4.211
- 4.21T Modifying Toy Locomotives
- 4.22 Electric Locomotives
Scope: Electrically powered or static models
- 4.220 Locomotives by Prototype Railroads
Scope: Includes—Models of specific prototypes
- 4.221 Locomotives by Prototype Builders
Scope: Includes—Models of specific prototypes
- 4.222 Locomotives by wheel arrangement
Scope: Excludes—Models of specific prototypes
- 4.22L Building Large Scale Locomotives
- 4.22M Building Model Locomotives
Scope: Includes—Modeling techniques; Excludes—Modifying scale model Locomotives
For Models of specific prototypes See 4.220 & 4.221
- 4.22T Modifying Toy Locomotives
- 4.23 Diesel Locomotives
Scope: Diesel-hydraulic Locomotives; Electrically powered or static models
- 4.230 Locomotives by prototype Railroads
Scope: Includes—Models of specific prototypes
- 4.231 Locomotives by prototype Builders
Scope: Includes—Models of specific prototypes
- 4.232 Locomotives by wheel arrangement
Scope: Excludes—Models of specific prototypes
- 4.23L Building Large Scale Locomotives
- 4.23M Building Modeling Locomotives
Scope: Includes—Modeling techniques; Excludes—Modifying scale model locomotives
For Models of specific prototypes See 4.230 & 4.231
- 4.23T Modifying Toy Locomotives
- 4.24 Special purpose Locomotives
Scope: Turbines; Electrically powered or static models
- 4.240 Locomotives by prototype Railroads
Scope: Including Models of specific prototypes
- 4.241 Locomotives by prototype Builders
Scope: Includes Models of specific prototypes
- 4.242 Locomotives by type
Scope: Excludes Models of specific prototypes
- 4.24L Building Large Scale Locomotives
- 4.24M Building Model Locomotives
Scope: Includes Modeling techniques; Excludes Modifying scale model Locomotives
For Models of specific prototypes See 4.240 & 4.241
- 4.24T Modifying Toy Locomotives
- 4.25 Trackmobiles
- 4.25M Modeling Trackmobiles

- 4.3 Self-Propelled Cars**
- 4.32 Electric cars
Scope: Trolley cars, Interurban, Electrically powered and static models
- 4.320 Cars by prototype railroad
Scope: Includes Models of specific prototypes
- 4.321 Cars by prototype Builder
Scope: Includes Models of specific prototypes
- 4.32L Building Large scale cars
- 4.32M Modeling Cars
Scope: Includes Modeling techniques; Excludes Modifying scale model cars
For Models of specific prototypes See 4.320 & 4.321
- 4.32T Modifying Toy Cars
- 4.33 Diesel-Electric cars
Scope: RDC's; Electrically powered or static models
- 4.330 Cars by prototype railroad
Scope: Includes Models of specific prototypes
- 4.331 Cars by prototype Builder
Scope: Includes Models of specific prototypes
- 4.33L Building Large Scale Cars
- 4.33M Building Model Cars
Scope: Includes Modeling techniques; Excludes Modifying scale model cars
For cars of specific prototypes See 4.330 & 4.331
- 4.33T Modifying Toy Cars
- 4.34 Motorized cars
Scope: electrically powered or static models
- 4.340 Cars by prototype Railroad
Scope: Includes Models of specific prototypes
- 4.341 Cars by prototype Builder
Scope: Includes Models of specific prototypes
- 4.34L Building Large Scale Cars
- 4.34M Building Model Cars
Scope: Includes Modeling techniques; Excludes Modifying scale model Cars
For Models of specific prototypes See 4.340 & 4.341
- 4.34T Modifying Toy Cars
- 4.4 Non-Revenue Cars**
Scope: Construction techniques for work trains
- 4.41 Cabooses
- 4.410 Cabooses by prototype railroad
Scope: Includes Models of specific prototypes
- 4.411 Cabooses by Prototype builder
Scope: Includes Models of specific prototypes
- 4.412 Cabooses by type
- 4.41L Modeling Large Scale Cabooses
- 4.41M Modeling Cabooses
Scope: Including Modeling techniques; Excluding Modifying scale model Cabooses; For Models of specific prototypes See 4.340 & 4.341
- 4.41T Modifying Toy Cabooses
- 4.42 Test & other special cars
Scope: Dynamometer; Rail inspection; Weight scale test cars
- 4.43 Snow plows & snow blowers
- 4.44 Rail laying & roadbed maintenance equipment
Scope: Including Jordan Spreaders
- 4.45 Handcars; Trailers
- 4.46 Cranes & Pile Drivers
- 4.46 Other work cars
Scope: Kitchen & Dormitory cars; Boom cars
- 4.5 Running Gear of Rolling Stock**
- 4.51 Wheels & wheel sets
- 4.52 Gears, gear trains, flywheels
- 4.53 Power Trucks
- 4.54 Non-power trucks
- 4.55 Brakes & braking systems
- 4.56 Bolsters & Underframes
Scope: For Steam Locomotives See 4.21
- 4.57 Couplers
Scope: For Uncoupling ramps See 7.85

- 4.6 Rolling Stock Repairs and Restoration**
- 4.7 Railcar Loads**
- 4.8 Non-Railroad Transportation Equipment**
Scope: Vehicles & equipment used to move goods & people
- 4.81 Automobiles
- 4.82 Buses, stage & steam coaches
- 4.83 Trucks & wagons
- 4.84 Ferries, boats, barges
- 4.85 Cranes & other lifting devices
- 4.86 Baggage carts
Scope: Powered baggage carts
- 4.87 Containers
- 5) STRUCTURES**
- 5.0 Structure Construction Techniques**
- 5.1 Track Support Structures**
Scope: Bridges; Trestles; Turntables; Transfer Tables
For Road bridges See 6.6
- 5.2 Wayside Structures & Signs for Loading Ramps See 6.3**
- 5.3 Freight Houses**
- 5.4 Locomotive Servicing Facilities**
- 5.5 Stations**
Scope: Combination passenger & Freight
- 5.6 Residential, Rural, Religious Buildings**
Scope: Privies, Chicken Coops, Barns
- 5.7 Commercial & Public Buildings**
Scope: Schools, Police & Fire Stations
- 5.8 Industrial Structures**
- 5.80 Machine/Tool shops
- 5.81 Sawmills, Lumber mills
- 5.82 Mining structures
- 5.83 Mills, smelters
- 5.84 Refineries, oil wells
- 5.85 Factories
- 5.86 Water terminals, wharves
- 5.87 Transfer facilities
- 5.88 Other industrial structures
- 5.9 Interiors for Buildings**
- 6) SCENERY**
- 6.0 Scenery Construction Techniques**
Scope: Product reviews of scenery materials
- 6.1 Backdrops**
- 6.2 Mountain Scenery**
Scope: Tunnels; Retaining Walls; Logging equipment
- 6.3 Commercial & Industrial Scenery**
- 6.4 Water Scenes**
- 6.5 Rural & Residential Scenery**
Scope: Stock yards; Farm machinery
For Fences See 6.9
- 6.6 Roads**
Scope: Roadsigns & Billboards; Road Bridges
- 6.7 Plants and Landscapes**
- 6.8 People & Animals**
- 6.9 Finishing Touches**
- 7) ELECTRICAL ANIMATION**
Scope: Including Product Reviews for Electrical Equipment
- 7.0 Basic Electrical Engineering**
- 7.01 Passive Devices
Scope: Resistors, capacitors
- 7.02 Coils, relays, solenoids
- 7.03 Electronic Design Principles
- 7.04 Semi-conductor devices
- 7.05 Motors
Scope: For Gear trains See 4.52
- 7.09 Troubleshooting Electronic Circuits
- 7.1 Layout Wiring Techniques**
- 7.11 Basic Wiring
Scope: Reverse loops, wyes
- 7.13 Wiring for special trackwork
Scope: Turnouts, Slip switches, Crossovers
- 7.14 Wiring for Turntables & Transfer Tables
- 7.15 Detection circuits
- 7.16 Cab Control Circuits
- 7.17 Control Panels

- 7.18 Signal control circuits
7.19 Computer/layout interfacing
- 7.2 Throttles**
7.20 Rheostat Throttles
7.21 Momentum control Throttles
7.27 Power Supplies
Scope: Design & Construction
Power supply protection
- 7.3 Command Control Throttles**
7.31 Carrier Command Control Throttles
7.32 Radio Command Control Throttles
7.35 Computer assisted Command Control
- 7.4 Sound Systems**
7.41 Sound systems; Engine activated
7.42 Sound systems; Throttle controlled
- 7.5 Locomotive Wiring Techniques**
7.56 A.C Reversing Units
7.57 Current Collectors
- 7.6 Lighting**
Scope: Miniature Lights
7.61 Lighting rolling stock
Scope: Constant intensity lighting
7.62 Lighting models
Scope: Fiber Optics
7.63 Model lights
Scope: Street lights; Flood lights
7.65 Lighting for Layouts
Scope: Black light
- 7.7 Signals for Control circuits See 7.18**
7.71 Train control signals
Scope: Design & construction
7.72 Crossing control signals
Scope: Crossing gates
- 7.8 Animated Cars & Accessories**
Scope: Model or Toy Train
7.85 Uncoupling devices
Scope: Manual & Electric
- 7.9 Clocks & Communications Equipment**
- 8) OPERATION**
- 8.0 Model Rosters**
- 8.1 Lighting Care & Maintenance**
- 8.2 Operating Ideas**
- 8.3 Timetable Operation**
- 8.4 Operation with Computer Assisted Control**
*Scope: Throttle control by Computer;
Track routing control by Computer*

- 8.5 Dispatching**
- 8.6 Computer Assisted Dispatching**
Scope: Traffic Management Programs
- 8.9 Switching Problems**
- 9) TOY/MODEL TRAIN SUPPLIES AND PUBLICATIONS**
- 9.0 Toy/Model Train History & Development**
9.01 History of individual Manufacturers
9.02 Catalogs & Checklists of a Manufacturer
For Sales Catalogs See 9.7
9.03 Original Boxes for Toys/Models
9.08 Tinplate Museums/collections
- 9.1-9.5 BUYERS' GUIDE TO TOY & MODEL TRAINS**
NOTE: Product Reviews are listed under the (possibly abbreviated) name of the manufacturer.
- 9.1 Trains, Track, Structures**
NOTE: Product reviews that contain assembly tips or articles on how to assemble a particular kit will be indicated by the Contents Note "CD".
- 9.10 RTR Train Sets
9.11 RTR Train Cars
9.12 Track & Switches
9.13 Train Car Kits
9.14 Locomotive Kits For RTR See 9.2
9.15 Self-propelled Car Kits
9.16 Track, Track Support, Tracksides Kits
Scope: RR Bridges, watertanks, handcar sheds
9.17 Structure Kits
Scope: Including RR Stations and Freight Houses
9.18 Vehicle kits
9.19 Miscellaneous kits
- 9.2 Motive Power Performance**
9.20 Locomotives as built
9.21 Motor replacements
9.22 Drive System replacements
9.23 Power Truck replacements
9.25 Performance improvement techniques
- 9.3 Toy & Model Train Parts**
9.30 Passenger Cars
9.31 Freight Cars
9.32 Locomotives
9.33 Self-propelled cars
9.34 Non-revenue cars
9.35 Railroad Running Gear
9.36 Track

- 9.37 Structures
9.39 Detailing Parts
- 9.4 Containers for Parts & Equipment**
Scope: Display cases
- 9.5 Product Warnings**
- 9.7 History of Toy/Model Train Publications**
9.71 Bibliographies
9.72 Indexes
- 9.8 Reviews of Publications and Videotapes on Model Railroading**
Scope: Includes Fiction with Model Railroad Theme
- 9.9 Sales and Distribution**
9.91 Distributors
9.92 Shops & Mail Order Houses
Scope: Sales & Operating Policies
9.97 Sales Catalogs
Scope: Published by Distributors, Stores, Dealers For Manufacturer's Catalogs See 9.02

PROTOTYPE INFORMATION

NOTE: Information on specific prototypes, structures or rolling stock is entered under the same classification as information on how to model them.

- P1 Historical Information on Prototype Railroads**
- P2 Current Prototype Information**
Scope: Road Stories, Fan trips
- P3 Railroad Right-of-Way**
Scope: Construction & Maintenance
- P4 Railroad Rolling Stock Rosters**
Scope: Acquisition & Disposition
- P4C Car Rosters**
- P4E Engine Rosters**
- P4S Self-Propelled Car Rosters**
- P5 Architecture**
Scope: Railroad Architecture
- P6 Reviews of Books and Videotapes on Railroads**
- P7 Railroad Electrification**
- P8 Railroad Operations & Procedures**
- P9 Railroad Equipment Suppliers**
Scope: Manufacturers

Abbreviations, Initials and Acronyms used in the NMRA Periodical Index

Initials	Meaning
A.F.	American Flyer
A&MR	Arcate & Mad River Railroad
A&WP	Atlanta & West Point
AA	Ann Arbor Railroad
AAR	Association of American Railroads
AC	Algoma Central Railway
AC&Y	Akron, Canton and Youngstown Railroad
ACF(X)	American Car & Foundry
ACI	Automatic Car Identification
ACL	Atlantic Coast Line
AHM	Associated Hobby Manufacturers (Importer)
ALCO	American Locomotive Company
ALP	Alturas & Lone Pine (Model Railroad)
AM&O	Atlantic, Missouri & Ohio Railway
ARR	Alaska Rail Road
ARY&CCo.	Alberta Railway & Coal Company
ATSF	Atchison, Topeka & Santa Fe Railway
AV	Aroostook Valley Railroad
B.O.T.	Board of Trustees
B&A	Boston & Albany
B&H	Bridgton & Harrison Railway
B&LE	Bessemer & Lake Erie
B&M	Boston & Maine
B&ML	Belfast & Moosehead Lake Railroad
B&O	Baltimore & Ohio

Initials	Meaning
B&S	Buffalo & Susquehanna
B&SR	Bridgton & Saco River
BAR	Bangor & Aroostook
BCE	British Columbia Electric/Hydro Railway
BCR	British Columbia Railway
BN	Burlington Northern
BR	Book Review (Used in Content Notes)
BR&P	Buffalo, Rochester & Pittsburgh
BRC	Belt Railway of Chicago
BS	Birmingham Southern
C.	Craftsman
C&A	Chicago & Alton
C&C	Carson & Colorado
C&EI	Chicago & Eastern Illinois
C&G	Columbus & Greenville
C&IM	Chicago & Illinois Midland Rail Road
C&K	Cairo & Kanawha
C&L	Cornwall & Lebanon
C&NW	Chicago & North Western
C&O	Chesapeake & Ohio
C&S	Colorado & Southern
C&T	Cleveland & Toledo
C&TS	Cumbres & Toltec Scenic Railway
CB&Q	Chicago, Burlington & Quincy
CC	Colorado Central

Initials	Meaning
CCR	Corinth & Counce Railroad
CD	Construction Details (Used in Content Notes)
CGW	Chicago Great Western
CI&L	Chicago, Indianapolis & Louisville
CM	Colorado Midland Railroad
CM	Construction Method (Used in Content Notes)
CMStP&P	Chicago, Milwaukee, St. Paul & Pacific
CN	Canadian National Rwy.
CNJ	Central Railroad of New Jersey
CNR	Canadian Northern Rwy.
CP	Central Pacific
CPR	Canadian Pacific Rwy.
CRANDIC	Cedar Rapids and Iowa City Railway
CSL	Chicago Surface Lines
CStPM&O	Chicago, St. Paul, Minneapolis & Omaha
CV	Central Vermont
CofG	Central of Georgia
D&H	Delaware & Hudson
D&IR	Duluth & Iron Range
D&RG	Denver & Rio Grande
D&RGW	Denver & Rio Grande Western
D&StJ	Detroit & St. Joseph
D&TSL	Detroit & Toledo Shore Line
DD	Detail Drawing (Used in Content Notes)
DL&W	Delaware, Lackawana & Western

Initials	Meaning	Initials	Meaning	Initials	Meaning
DM&IR	Duluth, Missage & Iron Range	MILW	Milwaukee Road	RR	Railroad
DM&N	Duluth, Missabe & Northern	MKT	Missouri-Kansas-Texas	RWY (RY)	Railway
DSP&P	Denver, South Park and Pacific	MLW	Montreal Locomotive Works	S	S Scale (1:64)
DSS&A	Duluth, South Shore & Atlantic	MN&S	Minneapolis, Northfield & Southern	S	South
DT&I	Detroit, Toledo & Ironton Railroad	MP	Missouri Pacific	S&A	Savannah and Atlanta
DW&P	Duluth, Winnipeg and Pacific	MP	Model Photograph (Used in Content Notes)	S&NC	Seattle and North Coast
E	East	MR	Model Railroad (Periodical)	SAL	Seaboard Air Line
E&LS	Escanaba and Lake Superior	MRR	Model Railroad	SCL	Seaboard Coast Line
E&N	Esquimalt and Nanaimo Railway	MU	Multiple Unit	SD	Scale Drawing (Used in Content Notes)
EBT	East Broad Top	N	N Scale (1:160)	SD&A	San Diego & Arizona
EC	Executive Committee	N	North	SI	Spokane International
EJ&E	Elgin, Joliet and Eastern	N.G.	Narrow Gauge	SLSF	St. Louis-San Francisco
EL(E-L)	Erie-Lackawanna	N.M.	Never Manufactured	SOO	Minneapolis, St. Paul & Sault Ste. Marie
EMD	Electro-Motive Division, General Motors	N&W	Norfolk and Western	SP	Southern Pacific
EP&SW	El Paso & South Western	N-C-O	Nevada, California, Oregon Railway	SR	SOUTHERN Railway System
ERIE	Erie Railroad	NA(HX)	North American Car Company	SP&S	Spokane, Portland and Seattle Railway
ET&WNC	Eastern Tennessee & Western N. Carolina	NAR	Northern Alberta Railway	SPRV	Self-propelled Rail Vehicle
F&CC	Florence & Cripple Creek	NC&STL	Nashville, Chattanooga & St. Louis	SR&RL	Sandy River & Rangeley Lakes
FEC	Florida East Coast	NCNGRR	Nevada County Narrow Gauge Rail Road	T&NO	Texas and New Orleans
FM	Fairbanks Morse	NH	New Haven	T&P	Texas and Pacific
FM	Finishing Method (Used in Content Notes)	NKP	Nickel Plate	TCA	Train Collectors Association
FSM	Fine Scale Miniatures	NMRA	National Model Railroad Association	TH&B	Toronto, Hamilton & Buffalo
G	G Scale (1:22.5)	NP	Northern Pacific	TN&C	Toledo, Norwalk & Cleveland
G. (GA)	Gauge	NS	Norfolk Southern	TP&W	Toledo, Peoria & Western
G&D	Gorre and Daphetid (Model Railroad)	NWP	Northwestern Pacific Railroad	TT	TT Scale (1:120)
GAT(X)	General American Transportation Corp.	NWSL	North West Short Line (Manufacturer)	TTOS	Toy Train Operating Society
GE	General Electric	NYC	New York Central	UP	Union Pacific
GF&CRy	Great Falls and Canada Railway	NYNH&H	New York, New Haven & Hartford	URR	Utah Rail Road (Formerly a N.G. line in Utah)
GM&O	Gulf, Mobile & Ohio	NYO&W	New York, Ontario & Western	URR	Union Rail Road
GN	Great Northern	NYS&W	New York, Susquehanna & Western	USRA	United States Railroad Administration
GTI	Guilford Transportation Industries	O	O scale (1:48)	UTL(X)	Union Tank Car Line
HO	HO Scale (1:87.1)	OER	Oregon Electric Railway	V&O	Virginian and Ohio (Model Railroad)
HV	Hocking Valley	ON	Ontario Northland Railway	V&T	Virginia and Truckee
I&O	Indiana & Ohio Railroad	OO	OO scale (1:76.2)	VC	Vermont Central
IC	Illinois Central Gulf	OR&W	Ohio River & Western	VGN	Virginian
ICV	Inside Front Cover (page designation)	P.E.I.R.	Prince Edward Island Railway	VR	Video Review (Used in Content Notes)
IHB	Indiana Harbour Belt Railway	P&LE	Pittsburgh & Lake Erie	W	West
IHC	International Hobby Corporation (Importer)	P&PU	Peoria & Pekin Union Railway	W&LE	Western Railway of Alabama
K&S	Kaslo & Slocan	P&S	Pittsburg & Shawmut	WAG	Wellsville, Addison and Galeton
KCS	Kansas City Southern	P&WV	Pittsburgh & West Virginia	WB&A	Washington, Baltimore & Annapolis Electric
KCT	Kansas City Terminal	P-S	Pullman Standard	WB&E	Wilkes-Barre and Eastern
KM	Krauss-Maffei	PA	Prototype Article (Used in Content Notes)	WD	Wiring Diagram (Used in Content Notes)
L.C.L.	Less than Car Load	PB&E	Philadelphia, Bethlehem & New England RR	WEC(X)	Westinghouse Electric Company
L&HR	Lehigh & Hudson River	PC	Penn Central	WM	Western Maryland
L&N	Louisville & Nashville	PE	Pacific Electric	WP	Western Pacific
L&NW	Louisiana and North West	PFE	Pacific Fruit Express	WP&Y	White Pass and Yukon
LGB	Lehmann Gross Bahn	PFM	Pacific Fast Mail (Importer)	WW&F	Wiscasset, Waterville and Farmington Rwy.
LIRR	Long Island Rail Road	PGE	Pacific Great Eastern	Z	Z Scale (1:220)
LNE	Lehigh New England	PM	Prototype Map (Used in Content Notes)		
LOTS	Lionel Operating Train Society	PR	Product Review (Used in Content Notes)		
LP	Layout Plan (Used in Content Notes)	PRR	Pennsylvania Rail Road		
LR&W	Little Rock and Western	PS	Paint Scheme (Used in Content Notes)		
LRV	Light Rail Vehicle	R.C.	Radio Control		
LS&MS	Lake Shore & Michigan Southern	RC(RMC)	Railroad Model Craftsman (Periodical)		
LV	Lehigh Valley	RDG	Reading Railroad		
M&STL	Minneapolis & St. Louis	REA	Railway Express Agency		
MBTA	Metropolitan Boston Transit Authority	RF&P	Richmond, Fredericksburg & Potomac		
MC	Michigan Central	RGS	Rio grande Southern		
MDC	Model Die Casting (Manufacturer)	RI	Rock Island Railroad		
MEC	Maine Central	RPO	Railroad Post Office		

NOTE: The letter "m" followed by a number used with a scale designation indicates the modeling of narrow gauge equipment in the designated scale. (e.g., HO_{N3} = HO scale, 3 foot gauge)
L, M, and T stand for Live Steam, Model and Toy respectively, when used in conjunction with a classification number.

Abbreviations used in Keyword Titles

Abbrev.	Word	Abbrev.	Word	Abbrev.	Word	Abbrev.	Word
asbl	assemble	elec	electric	loco	engine	sm	small
bd	backdate	eltn	electronic	lyt	layout	snbg	sanding
bid	build(ing)	entp	enterprises	mdg	modeling	sou	southern
blbg	building	est	eastern	mdul	module	std	standard
cast	casting	ext	exterior	minat	miniature	stn	station
cbse	caboose	frln	freelance	modf	modifyin	strln	streamline
cls	class	frt	freight	modz	modern	swh	switch
cltr	collector	gon	gondola	mtn	mountain	swhr	switcher
cmbn	combination	gr	greater	nor	northern	sys	system
co	company	grd	ground	orig	original	term	terminal
cplsr	couplers	hs	house	pc	pieces	tr	traction
cstn	construction	imp	improve	ping	planning	txfmr	transformer
cti	central	in	inches	plst	plastic	upg	upgrading
ctry	century	inds	industry	pntg	painting	vt	valley
cvsn	conversion	intf	interface	psgr	passenger	wes	western
dcl	decal	inst	install	ptbl	portable	wt	weight
disp	disposal	int	interior	ptyp	prototype	wthg	weathering
div	division	jct	junction	rhs	roundhouse		
dttr	dry transfer	kbsh	kitbash	rpmt	replacement		
dtd	detailling	lbr	lumber	sc	scale		
el	elevated	lhtg	lighting	scbt	scratchbuilt		

The first letter of an abbreviation may be capitalized in an entry.

NMRA Index for Periodicals Published in 1989

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
1) CRAFTSMEN AND THEIR RAILROADS			
1.8 History of Scale Model Railroading			
Carl Fallberg: Biography	PP, Article	8904 SM	29
John Romberger: Biography		8910 SM	31
Kughn, R.P.: Lionel Chrmn: Biog	Article	8903 SG	28
Sn3 Modeler Issuing Status	Editorial	8910 SM	15
Sn3 Modeler Popularity	Article	8904 SM	7
1.94 Rolling Stock by One Modeler			
AT&SF: Newton Kansas	Ltr	8908 RC	8
AT&SF: Steam/Diesel Rosters	Correction	8907 RC	12
AT&SF: Steam/Diesel Rosters	PA, PP, PM, DD	8904 RC	55
1.94C Car Rosters			
AF Production: 1st 10 Yrs	MP, List, S	8903 SG	38
1.94E Engine Rosters			
AF Production: 1st 10 Yrs	MP, List, S	8903 SG	38
1.95 Layout Legends			
1939 NY World Fair: 160X40: Pt I	LP, MP, O	8908 OR	19
1939 NY World Fair: 160X40: Pt II	LP, MP, O	8910 OR	24
1939 World Fair Layout	MP, LP, O	8907 RC	102
1939 World Fair Layout	MP, O	8908 RC	106
Allen	HO, MP	8901 MR	99
Aberfoyle Junction: 84X38	O, LP, MP	8908 OR	31
Cronkite	O, MP	8901 MR	97
Canandaigua Southern: Armstrong J	O, LP, MP	8907 ON	30
Delta Lines Memories: Elliot Kahn	LP, MP	8912 OR	27
Ellison	O, MP	8901 MR	98
Edgerton Park: Rochstr, NY: Lionel	LP, MP, O	8910 OR	33
Ellison Frank: Delta Lines: 40X40	LP, MP, History	8912 OR	24
Harry Albrecht	MP, PP	8901 MR	188
Joyner	O, MP	8901 MR	105
McClelland	HO, MP	8901 MR	110
Reid Bros	N, MP	8901 MR	102
Rerailing a Derailment	MP	8903 BL	11
Stamford Ct. Club: 140X40	LP, MP	8904 ON	29
Union Connecting RR: NYSME: 70X48	O, LP, MP	8901 ON	31
Verbal Realism		8905 BL	36
Regional Ptyp Mdg	PA, MP	8911 MG	14
1.99 Scale and Layout Discussion			
Getting Started		8902 MR	24
1.1 Model Railroad Organizations			
FASS S Fest	Article, MP, S	8903 SG	53
NMRA National Houston	MP	8906 RC	66
West Coast Hobby Show	Editorial	8905 RC	6
1.11 History and Development			
Historian's Corner		8901 BL	39
Historian's Corner		8902 BL	41
Historian's Corner		8907 BL	32
Lionel: A.C. Gilbert	Edit	8903 SG	21
Ntrak: The Modular Way	MP, N	8907 NS	22
1.12 Policies and Rules			
NMRA Library Use		8904 BL	39
Pike Registry	FORM	8906 BL	39
1.13 Current Information			
9th NG Convention	Editorial	8911 NG	5
Around the Association		8901 BL	38
Around the Association		8902 BL	18
Around the Association		8903 BL	30
Around the Association		8904 BL	32
Around the Association		8908 BL	21
Astroflyer: 89 Lyt Pix I	MP	8905 BL	40
Astroflyer: 89 Lyt Pix II	MP	8906 BL	17
Astroflyer: 89 Lyt Pix III	MP	8907 BL	36
Astrorail '89	MP	8911 BL	17
Astrorail: 89	PP, MP	8904 BL	11
Author's Guide	FORM	8905 MG	39
BOT Meeting July 1989	REPORT	8911 BL	17
C&O Historical Society		8908 MG	11
Contest Results: RPM Houston NMRA	MP	8911 RJ	43
Dioramas from NMRA Houston	MP	8910 RJ	54
EC Meeting: 2/6/89	MINUTES	8907 BL	9
GNRHS		8910 MG	13
Houston '89 Trade Show	MP	8911 BL	35
LA Model Show 3/2/89	MP	8907 BL	29
Library Donors	LIST	8907 BL	13
Mer Markers '89	MP	8908 BL	24

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
MRIA Show 1988: I	MP	8901 BL	11
MRIA Show 1988: II	MP	8902 BL	11
NMRA '89 Arts/Crafts	LIST	8911 BL	33
NMRA '89 Special Awards	LIST	8911 BL	33
NMRA 1989 Model Winners	LIST, MP	8911 BL	18
NMRA Annual: 7/22/88	MINUTES	8903 BL	9
NMRA Arts/Crafts Pop Vote	LIST	8911 BL	34
NMRA BOT Meeting 7/17/88	MINUTES	8903 BL	10
NMRA EC Meeting: 7/17/88	MINUTES	8903 BL	9
NMRA Financial Statements		8908 BL	21
NMRA Photo Winners	LIST	8911 BL	34
Pop Vote 1st Winners	LIST	8911 BL	33
Region Way Freight		8901 BL	41
Region Way Freight		8903 BL	41
Region Way Freight		8904 BL	41
Region Way Freight		8906 BL	40
Region Way Freight		8907 BL	40
Region Way Freight		8908 BL	40
Region Way Freight		8909 BL	37
Rocket to the Quad Cities	MP	8908 BL	26
RPM Meet	Editorial	8905 RC	106
RR Prototype Modelers Display	MP	8910 RJ	52
RR Ptyp Mdg: 1988	REPORT, LIST	8902 BL	5
RR Ptyp Winners: 1989	LIST, MP	8911 BL	29
RR Ptyp: 1988/89	MP	8903 MG	48
Trains to Astrorail 89	PA	8906 BL	21
Toy Fair 89: New Products	Overview, MP	8908 OR	16
Valley Flyer: 89	MP	8905 BL	14
Year of the Train	EDITORIAL	8903 BL	12
1.131 Directories			
Audio-Visual Loans	LIST	8906 BL	25
Historical Societies	LISTING	8902 MR	172
National Retailers	LIST	8902 BL	25
National Retailers	LIST	8909 BL	24A
SIGA	LIST	8907 BL	7
1.132 NMRA Master Model Railroaders			
Burgess, Jack		8908 BL	19
Clarke, Bob		8909 BL	16
Halpern, David		8902 BL	15
Kraus, Dale G.		8908 BL	19
Love, Bob		8902 BL	15
McLean, Basil A.		8910 BL	16
Moffett, Pete		8909 BL	16
Schulz, Irv		8908 BL	20
Whitlock, John		8909 BL	20
Wilt, William A.		8910 BL	16
1.135 Service Awards			
Golden Spike Awards	LIST	8906 BL	11
Presidential Awards	LIST	8901 BL	4
1.14 Program Ideas			
MCR Div 4 Show	PP	8902 BL	33
NMRA Buyer's Guide	INFORMATION	8901 BL	24
Pittsburgh Limited Poster	ART	8908 BL	29
Railroad Prototype Modelers Report	MP	8907 RJ	72
Switching Contest		8902 BL	35
Switching Contest		8903 BL	13
Switching Contest		8909 BL	23
Youth Forum		8902 BL	14
Youth Forum		8907 BL	31
Youth Forum		8909 BL	18
1.2 Outdoor Model Railroads			
Calif Redwood Valley Rwy	PA, PM, PP	8907 RC	66
Diesels 1.8	MP	89 MR	
Forney: NG: Scbt	SD, PP	8907 NG	69
1.32 0 Gauge			
Benson, Bill: Test Track: 60'X30'	LP, MP	8902 OR	31
Christmas Putz Display: 560 Sq Ft	MP, Article	8912 OR	31
Christmas Putz: 6X6	LP, SD, DD, CM, MP	8912 OR	59
Edgerton Park: Rochstr, NY: Lionel	LP, MP, O	8910 OR	33
Loop, Bill: 23X22	O, S, LP, MP	8908 OR	28
Mebus, Henry: 42X24	MP, LP	8802 OR	29
Pahl, Matt: 28X16	LP, MP	8906 OR	32
1.33 3 Gauge			
Loop, Bill: 23X22	O, S, LP, MP	8906 OR	28

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
1.41 Large Scale			
Outdoor	MP	8910 MR	158
1.42 0 Scale			
1939 NY World Fair:160X40:Pt I	LP,MP,O	8908 OR	19
1939 NY World Fair:160X40:Pt II	LP,MP,O	8910 OR	24
20X45 Display	MP	8912 MG	114
20X45 Display	MP	8912 MR	114
23X47 Traction	CM,MP,LP	8903 MR	96
Blackburn, Howard:Outdoor Lyt	MP	8904 ON	53
Boelter, Robert:33'X'13:Mdlr	LP,MP,DD	8904 OR	26
California Lines	O,LP,CM	8909 RJ	16
Canandaigua Southern:Armstrong,J	O,LP,MP	8907 ON	30
Cascade Valley:Frank Miller:49X30	LP,MP	8912 OR	38
Cox,Jimmy:Outdoor	LP,MP	8904 OR	22
Display		8912 MR	117
Delta Electric:Bill Harry:13X11	LP,MP	8912 OR	46
Delta Lines Memories:Elliot Kahn	LP,MP	8912 OR	27
Ellison, Frank:Delta Lines:40X40	LP,MP,History	8912 OR	24
Hudson Valley Lines:100'X36'	LP,MP	8904 OR	31
Jay Jackler's Layout	MP,LP,O	8912 RC	99
Minerville & Western:Small Lyt	LP,MP	8902 OR	25
Rosebud RR(Brian Rudko)	MP,DD,CD,On3	8905 NG	40
SP:Morrill,Charlie:24X20	LP,MP	8906 OR	25
Stamford, Ct Club:140X40	LP,MP	8904 ON	29
Union Connecting RR:NYSEME:70X48	O,LP,MP	8901 ON	31
George Muller: Conn & Ohio	MP,LP,O	8910 RC	56
1.43 S scale			
12X26 Cheyenne Mtn RR	MP,LP	8907 MR	58
Coos River RR:8.5X12	MP,LP,CM,S	8911 SG	30
Display		8912 MR	117
Norline System:Norm Schreiner:11X11	MP,S,LP,CM	8907 SG	28
Ozark Southern:10X20	MP,S	8903 SG	34
Stamford, Ct:Club	MP	8904 OR	23
1.44 HO Scale			
12X24 Hoosier Road	LP,MP	8901 MR	82
16X22 Grt Northland	LP,MP	8909 MR	80
16X70 Chesapeake & Lake Erie	MP,LP	8904 MR	62
20X48 or 20X24 CC&W Ry & Mining Co.	LP	8905 MR	77
28X54 MR&T	MP,LP	8912 MR	84
28X54 MR&T	MP,LP	8912 MR	85
2X4 Module	FULL CD,LP,MP,PP	8908 MR	58
2X4 Module	FULL CD,MP	8910 MR	112
2X4 Module	FULL CD,MP	8911 MR	95
3'X12 Pine Hollow	MP,LP,CM	8912 MR	93
3X10 HG&GV RR	LP	8904 MR	72
3X11 Portable	MP,LP,CM	8910 MR	70
3X6'6 Traction	CM,CD,MP,LP	8903 MR	64
3X6'6 Traction	MP	8904 MR	67
3X6'6 Traction	FULL CD,MP	8901 MR	120
3X6'6 Traction	CM,CD,MP,LP	8902 MR	82
4'X7 Kanawha Valley	MP,LP	8902 MR	130
40X42 Highland Pacific	MP,LP	8911 MR	80
5X8 Laurel Highland	CM,LP	8903 MR	94
6X10 Hollywood	MP	8912 MR	142
8 X 12 Modular	MP	8902 MR	92
B. Freer:RR in Blood	PP,MP	8911 MG	38
BN Model RR Club	LP,MP	8906 MG	34
Bossaers; New England RR	LP,MP	8907 MG	11
Cat Mtn. & Santa Fe	MP,CD	8908 MR	60
D&H:Second Subdivision	CD,DD,LP,PM,HO	8902 RC	84
D. Jones; Rio Rico	CD,MP	8901 BL	29
Display	MP	8912 MR	117
F & SM	MP,LP	8901 MR	127
Greenwood:Mossman Div NP	LP,MP	8910 MG	14
Gurnsey VI Club	MP	8905 MG	9
Grayson's Valois Central	MP,DD,LP	8906 RC	101
Grayson's Valois Central	Ltr	8908 RC	14
Modular	MP	8906 MR	62
Morgan Valley	CM,LP	8901 MR	86
NE&W Layout Tour	MP,LP,HO	8912 RJ	32
Patrick Lawson's CP Rail	MP,DD	8906 RC	70
Salzgaber; PRR	CD,LP,MP	8903 MG	22
South Pittsburg:Mer RS3	Ltr	8908 RC	10
South Pittsburg:Rosters	MP,HO	8906 RC	50
T-D&FAP Railroad	MP,LP,HO,CM	8907 RJ	12
T. Godwin:SAD Lines	LP,MP	8909 MG	14
West Side Freight	CD,MP,LP,HO	8901 RC	56
York Haven Railroad	MP,LP,HO	8911 RJ	32
1.46 N Scale			
10X15 Downe & Owite	MP,LP	8905 MR	98
11'X16'6 Sectional N & S	CM,MP,LP	8908 MR	96
12X12 Green Mtn	LP,PP	8909 MR	72
13X14 Allentown Western	LP,CD	8908 MR	72
4X8 Minnesota Western	MP,LP	8905 MR	68
Buckley's Podunk Vi	MP	8909 BL	27
D. Miller:Gulf Mobile & A	CD,MP	8907 MG	61
Krauss:8&O RR	CD,LP,MP	8904 MG	10
Night Scenes:Dennis Dubas	MP,N	8911 NS	32
Pacific Desert Lines	MP,LP,N	8912 RC	64
Spanel:L&S Short Line	CD,MP,G	8908 MG	14
San Diego Model RR Museum	MP,LP,N	8912 RC	64
Steilacoom:Washington	LP,MP	8907 NS	36
Tom Elwell PS&C	MP	8907 NS	27
United Northwest:12X23	MP,N	8911 NS	53
1.5 Narrow or Wide Gauge Railroads			
Norm Grant's Colorado & Southern	MP,LP,G	8910 RJ	33
1.51 Large Scale			
Korero Rwy	LP,MP,DD	8905 NG	58

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
1.52 0 Scale			
21X31 Tomhawk & Lobo Creek	MP,LP	8912 MR	128
Bayou Plantation	MP,LP,On3	8903 NG	48
Brook & Kantifordit	LP,DD,MP,On3	8907 NG	23
Cedar Ridge Mine & Timber	LP,MP,On3	8909 NG	39
Cedar Valley RR	MP,LP,On3	8911 NG	54
Sonora&Camino:Work Combine	CD,MP,On3	8901 NG	68
Tomhawk & Lobo Creek	MP,LP	8912 MR	128
1.53 S Scale			
C&N	MP,LP,Sn3	8902 RC	56
DR&N Scotch Creek Jct	CM,LP,MP,Sn3	8910 SM	19
S Scale Standards	Letter	8905 RC	14
Schmauch's St.Clair & South Park	MP,LP,Sn3	8909 RC	48
St. Clair & South Park	MP,Sn3	8910 SM	33
1.54 HO Scale			
20X24 Union Central & Northern	CM,LP,MP	8905 MR	56
Boomer Trail	MP,Hon3	8905 RC	86
Bozman,Don:GGN	MP,LP,HO	8903 RC	56
Cardinal System:4 Roads	MP,HO	8904 RC	73
Coal Belt RR	MP,LP,HO	8905 RC	52
Cornet Line	MP,LP,HO	8902 RC	81
Dunn & Duffy Circus Train	PA,PP,MP,CM	8907 RC	50
Ebner; Animas, Silverton & Sou	CD,MP,LP	8912 MG	36
P&S:PA Coal Haver:J.Crede	PP,MP,LP,PM,HO	8911 RC	56
RGS in Minat	MP,Hon3	8911 NG	46
Switching at Dolores	PP,MP,DD	8907 NG	52
Virginian Northern	PA,LP,CM	8907 RC	87
1.56 N Scale			
Argentine & Cripple Ck Rwy Cstn	MP,LP,CD,Nn3	8909 NG	23
1.6 Dioramas and Modules			
Module Track Opns:Ntrak	CM,DD,N	8911 NS	34
1.62 0 Scale			
Boelter, Robert:33'X'13:Mdlr	LP,MP,DD	8904 OR	26
Hungryhorse #3 (Jim Barron)	MP,On3	8903 NG	47
Pier Sctt	MP	8903 NG	60
1.63 S Scale			
Modular DR&N Scotch Creek Jct	CM,LP,MP,Sn3	8910 SM	19
1.64 HO Scale			
Hancock:Visit	MP,LP,CD	8903 NG	24
Night Before Christmas	CD,MP	8912 MG	14
Tenn Valley	MP	8902 MG	31
1.66 N Scale			
Cantington Ntrak I	MP	8907 MG	41
Cantington Ntrak II	MP	8908 MG	56
Kent Charles' Home Ntrak Layout	MP,LP,N	8908 RJ	40
Ntrak:Birmingham:1988	MP	8902 BL	19
NYC:Fremont:Ohio	PA,PP,PM	8911 NS	60
1.7 Stories in a Model Railroad Setting			
Childrens Program	CHANNEL LISTING	8906 MR	136
PBS Childrens Program	MP	8906 MR	134
Pntg Pacific Coast Shay	FM,PP	8909 BL	21
1.8 Sociological Aspects of Model Railroading			
Fellowship of Mdl RRRing	MP,Ltr	8907 NG	5
FRLN Rwy	MP	8907 NG	65
Wives	MP	8907 MR	111
What Are We Doing?	Editorial	8903 RC	108
2) THE CRAFTSMAN, HIS METHODS & STANDARDS			
2.0 Introductory Articles			
A Decade of Flyer	Article	8903 SG	40
Adding Realism		8911 MR	142
AF Collector Info	Article,MP	8907 SG	32
AF Collector Info	MP,S	8911 SG	20
AF Collector Info	MP,Article	8905 SG	44
AF Collection of Lionel Chrman Kughn	MP	8903 SG	30
AF Collector Info	MP,S	8903 SG	46
AF Collector:Anthony Yorio	MP,S	8907 SG	25
Allegheny Midland Passenger Service		8905 MR	114
Armitage, Al:Mdlr:Biog	MP	8902 MM	64
Basic info	MP,N	8907 NS	40
Bill Nelson:Mdlr	MP	8907 MM	70
Bob Boudreau:Mdlr:Biog	MP	8906 MM	47
Burmeister, Karl:Mdlr	MP	8906 MM	34
Chking on Full Size Railroading		8910 MR	120
Communications		8908 MR	110
Carolina-Hobby:Design Templates	PR,MP,N	8906 RC	98
Dean Freytag:Mdlr:Biog	MP	8909 MM	44
Elementary	MP	8901 MR	140
Edgar, Bill:Mdlr	MP	8904 MM	56
Finding Time		8906 MR	120
G Scale		8901 MR	142
Gage, Ray:Mdlr:Biog	MP	8903 MM	34
George Sellios:Mdlr	MP	8910 MM	1
Geracchi, Bill:Mdlr:Biog	MP	8904 MM	30
Handlaid Track		8912 MR	184
Layout Planning		8901 MR	26
Laying and Ballasting	CM,MP,N	8911 NS	14
Lionel AF Disney:1977-81:History	List,MP	8912 OR	55
Lionel GG1's:History:1947-81	MP	8910 OR	50
Lionel-Fundim:Steam Pegr Sets:77-81	MP,Discussion,O	8908 OR	55
Lloyd Keyser:Mdlr:Biog	MP	8905 MM	40
Miscellany		8904 MR	114
Mark Hills:Mdlr	MP	8909 MM	28
Morey Duncan:Mdlr	MP	8911 MM	61
Morris, Kelley:Mdlr:Biog	MP	8903 MM	46
Narrow Gauge		8903 MR	132
Nelson, Bill:Mdlr	MP	8901 MM	76
Newton Brown:Largers AF Coll in KC,MI	MP,Article,S	8905 SG	32

CLASSIFICATION KEYWORDS	CONTENTS NOTES	DATE	PERIODICAL PAGE
Nichols, Jeff:Mdlr	MP	8902	MM 34
Overlooked Detail		8907	MR 121
Old Parts/Models:Salvage Of	MP,Discussion	8906	OR 21
Participation		8902	MR 148
Pond Bldg	CM	8906	MR 30
Richard Xavier:Mdlr	MP	8908	MM 32
Ryan, Ed:Mdlr	MP	8905	MM 64
Terminology		8905	MM 53
Upgrdg Mdl Locos:Think Piece:Pt I	Article	8902	OR 18
Upgrdg Mdl Locos:Think Piece:Pt II	Article	8904	OR 24
Vocabulary		8904	MR 130
2.01 Instructional Materials & Methods			
Getting Organized		8908	BL 21
How to Research	DD,MP	8909	MG 41
PBS Mr Programs	CHANNEL LISTING	8901	MR 186
2.02 Financial Aspects of Model Railroad			
Library/Estate	INFORMATION	8902	BL 36
2.1 Prototype Research			
Aerial Photography	Ltr	8908	RC 12
Aerial Photos	Article	8906	RC 104
Aerial Photos	Article	8907	RC 109
Aerial Photos	Article	8906	RC 104
NARA Depositories	Article	8906	RC 104
National Archives	Article	8906	RC 104
National Archives	Article	8906	RC 104
2.16 Photography			
Aerial Photography	PA,PP	8910	MM 72
For Scratch Bldg	CM	8902	MR 171
Lumedyne	PA,PP	8911	RF 12
Lighting is the Key	CM,MP	8907	NS 14
Steinheimer's Workshop	PA,PP	8901	RF 48
2.19 Drafting & Drawing			
Computer Drwg	CM,MP,PP	8904	MR 90
2.21 NMRA Standards			
Mdul: Intro		8910	BL 17
Mdul: G		8907	BL 24
Ms-1 Std Gauge	PROPOSED	8910	BL 20
Ms-1.1: NG	PROPOSED	8910	BL 19
Ms-1.2 TR/Overhead	PROPOSED	8910	BL 21
Ms-1.3 Elec. Mdul	PROPOSED	8910	BL 22
S-1 General	REV JULY 1988	8907	BL 26
S-2 Track & Wheel	REV JULY 1988	8907	BL 27
S-3 Track Work	REV JULY 1988	8907	BL 27
2.211 Conformance Warrants			
Conformance Warrants		8902	BL 5
Conformance Warrants		8904	BL 5
Conformance Warrants		8905	BL 5
Conformance Warrants		8907	BL 5
Conformance Warrants		8911	BL 5
2.22 NMRA Recommended Practices & Designs			
Mdul: Intro		8910	BL 17
MRP-1 Std Gauge	PROPOSED	8910	BL 23
MRP-1.1 NG	PROPOSED	8910	BL 23
MRP-1.2 TR/Overhead	PROPOSED	8910	BL 24
MRP-1.2A TR/Overhead All Sc	PROPOSED	8910	BL 24
MRP-1.3 Elect	PROPOSED	8910	BL 25
MRP-1.4 Transition Mdul	PROPOSED	8910	BL 25
RP-11 Curvature	REV FEB 1989	8910	BL 30
RP-20.1 Car Weight	REV NOV 1988	8910	BL 30
RP-3 Proto-Track	PROPOSED	8910	BL 30
RP-4 Proto-Wheels	PROPOSED	8910	BL 30
RP-4.5 Hi-Rail - Wheels	RAV DEC 1988	8910	BL 30
Rp21.1 Coupler Contour	Aug-57	8904	BL 29
Rp21.2 Solid Couplers	REV FEB 1960	8904	BL 29
RP22 HO Coupler Pocket	Aug-58	8904	BL 29
RP23 Bolsters	REV AUG 1961	8904	BL 29
RP23.3 Axles	REV JUL 1982	8904	BL 29
RP24 Trucks	Aug-63	8904	BL 29
RP24.1 Journals	REV JUL 1982	8904	BL 29
RP24.2 Wheelsets	Aug-63	8904	BL 29
RP25 Wheel Contour	REV JUL 1986	8904	BL 29
RP37 Drawbar	PROP. MAY 1981	8904	BL 30
RP37.1 Drawbar	PROP. MAY 1981		BL 30
2.23 NMRA Data Sheets & Technical Notes			
D7C 11.1 Batteries	DD	8910	BL 37
Update		8901	BL 38
2.25 Modular Layout Standards			
N-Trak Modular Standards	FULL CD,SD,WD	8908	RJ 44
2.3 Machines & Tools			
1 Room Work Stn	CM	8907	BL 32
3 Minute Workbench	CD,MP	8905	MG 29
Anker:Rip Saw	MP,PR	8902	RC 104
Center-Punching, Cstn Tip	DD,CM	8907	NG 43
Dremel Drill Press	CM,MP,DD	8903	RC 54
File For Plastics	CM,MP	8904	MG 38
Gear Puller:Mascot Precision Tools	PR	8902	MM 23
Gears, Sctb	MP,DD,H0N3	8911	NG 38
Goodwin Mfg:Giraffe Lamps	PR	8908	MM 25
Heat Treating Steel Tools	CD,CM	8901	MM 58
Jl Mfg:Vise Brake	PR	8908	MM 25
Lamps Giraffe:Goodwin Mfg	PR	8908	MM 25
Measuring Stick	CM,MP	8902	MR 172
NWSL Riveter	CM,PP,MP	8907	MM 79
Power Bits	MP	8910	MR 139
Rail Nippers:Mascot Precision Tools	PR	8902	MM 23
Riffle File Set:Moco-Mark	PR,PP	8903	MM 23
Sand Blast Booth (Divisionpnt)	PR,MP	8911	NG 23
Scale Rules:Mascot Precision Tools	PR	8902	MM 23

CLASSIFICATION KEYWORDS	CONTENTS NOTES	DATE	PERIODICAL PAGE
Techniques For Drilling Small Holes	FULL CD	8911	RJ 38
Use of Dividers and Templates	CM	8910	RJ 14
Vise Brake:JL Mfg	PR	8908	MM 25
2.4 Materials &/or Adhesives & Their Uses			
Adding Trim to Structures	CM	8906	RJ 15
Adhesives	CM,MP	8903	MR 82
Brass Flat Bar:Dtl Assoc	PR	8905	MM 22
Building Material Sheets	PR,MP,N	8911	NS 24
Controlling Cement Flow	CM	8906	RJ 15
Carl Goldberg Mds:Acc	PR	8903	SG 12
Cast Medium:Urethane (Aluminate)	PR,MP	8911	NG 12
Epoxy Cast	CM,MP,Full CD	8907	NG 18
Filler Putty:Dr. Microtools	PR	8907	MM 24
Getting Organized	CM,MP	8911	BL 14
Glass Brick	CM,MP	8910	MG 55
Kadee Coupler Installation	FULL CD	8906	RJ 16
Low Visc Casting Plastic	REVIEW	8904	MR 48
Paper Punch Uses	CM,MP	8905	MG 54
Paste Scenery	FULL CD,MP	8904	BL 35
Workspace Organization		8903	BL 36
Wood Kits	Editorial	8908	RC 6
2.5 Model Construction Techniques			
Building Craftsman Kits	CM,MP	8906	BL 37
Backhead Gages & Lights:Dtlng	O,PP,MP	8901	ON 27
Basics of Soldering	MP	8906	RC 68
Brass Flat Car:S3:Scribd	CD,PP,MP,SD,DD	8906	OR 38
Bridges & Trestles:Easy Install	CM,MP	8911	RC 66
Casting	CM	8901	MR 166
Copy Kit Parts Scratchbuilding	MP,PP,FULL CD	8910	RJ 10
Closed Vest Wd Pgr Car:Scrib	O,CD,CM,MP	8808	OR 16
Cylinder Blocks:Building	Full CD,MP,DD	8902	OR 20
Foam-Core Construction	Full CD,DD,CM,MP	8905	RC 89
Model Transport Box	FULL CD,MP	8904	MR 96
Radio Cntrl and Moving Engineer	O,PP,MP	8904	ON 27
Riveting:NWSL Riveter	CM,PP,MP	8907	MM 79
Soldering Jig	CM	8906	RJ 15
Store Interiors from Color Slides	PA,PP,DD,HO	8904	RC 65
Traction Track - Cleaning Car	Full CD	8910	RC 70
Working Smoke Unit	O,PP,MP	8904	ON 41
2.6 Model Photography and Videotaping			
Fog Machine	MP,CM	8907	RC 106
Title Slides	Article	8909	RC 106
2.61 Cameras and Lenses			
A Basic Guide	DD	8908	MG 50
Kodak Fling Camera	PR	8904	ON 19
2.62 Films and Film Processing			
RMC Photo Contest	Editorial	8904	RC 106
2.63 Video Cameras and Tapes			
Lionel:Video Camera Locomotive	PR,MP,HO	8908	RC 92
2.64 Lighting			
Layout Vs Prototype Lhtg	PP	8906	MM 54
Outdoor Lighting Refined	CM,MP	8909	NS 54
2.65 Photographing Models			
Photography For Article Support	Ltr	8911	NS 11
Photography For Article Support	CM,MP,N	8907	NS 42
Photography For Article Support	CM,MP,N	8909	NS 30
2.66 Photographing Layouts			
Camouflage in Photography	Article,MP	8905	RC 102
Preparedness		8908	BL 14
2.7 Painting, Numbering and Lettering Techniques			
Color Sc Models:Ncng	PR,MP,ON3	8909	RC 100
Coloring Side Rods	Letter,FM	8910	RC 12
Making Decals	CM	8909	MR 123
Microscale:Misc Decals	PR,S	8903	SG 15
Peel Paint With Pastels	CM,MP	8909	RC 68
Pntg & Weathering Hot Metal Cars	CD,MP,HO	8907	RC 73
Stainless Stl Trim Film:Microscale	PR,CD	8904	MM 23
Tips	CM	8909	MR 110
Undec Shells	CM,MP,N	8909	NS 38
2.71 Painting Supplies and Equipment			
(Badger) Compressor	MP,PR	8909	NG 14
Barrier/Glossing Shield:Floquil	PR	8901	NG 14
Bottle Bases (Pbi)	PR	8910	SM 8
Coloring Wood:Magic Markers	MP,PR	8909	NG 16
Stainless Steel	FM,MP	8910	RC 93
Scalecoat Custom Mix NH:Bob Rzasa	CM	8905	MR 122
	PR	8901	MM 26
2.72 Painting Techniques			
Bricks By Brush	CM,MP	8903	MG 21
Masking With 3M	MP,CM	8909	RJ 54
Pntg Undec Shls	CD,CM,PS,N	8911	MM 49
Stone or Brick	FULL CD,MP	8901	MG 35
Signs on Bldgs	FM,MP	8901	NG 66
Wthg in N	CM,MP,N	8906	MG 32
2.74 Lettering Supplies			
C&I:Richard Fink	PR,CD,HO	8904	MM 23
D&RGW Diesels:Microscale	PR,CD,O	8903	MM 22
DM&IR Wd Cbse:Missabe RR Hist Soc	PR,DD	8902	MM 21
EJ&E #6009 Del:Virmex Ind	PR,HO	8908	MM 25
Golden Loaf Airlide Hop:Riv Ren Mdl	PR,CD,HO	8901	MM 26
John W. Hall:Decals	MP,PR,S	8907	SG 14
LMX B39-8:Microscale	PR,MP,HO	8902	MM 23
Monon:Mdl RR Supply	PR,HO	8901	MM 23
Mt Rail Link Decals	PR,DD	8906	MG 27
NP 40' GS Wd Chip Gon:Islington Stn	PR,DD,HO	8908	MM 22
PFE 57 Ft Mech Refer:Microscale	PR,CD,N	8903	MM 25
PRR Twin Hop:Middle Div	PR,DD,O	8908	MM 28
Wab Airlide Hop:River Raisin Mds	PR,CD,HO	8901	MM 28

CLASSIFICATION KEYWORDS	CONTENTS NOTES	DATE	PERIODICAL	PAGE
2.77 Railroad Paint Schemes				
Amtrak:EMD F40PH	PA,PP,DD	8908	MM	52
BN:GE U30C U33C C30-7	PA,PP,DD	8907	MM	26
CNJ:GP40P	PA,PP,DD	8901	MM	29
CR:GE Dash 7 & 8's	PA,PP,DD	8902	MM	73
E&J:EMD SD38-2	PA,PP,DD	8904	MM	32
LMX Lease:BN GE B39-8	PA,PP,DD	8911	MM	26
MP Colors: II	PP,PS	8906	MG	17
MP Colors: I	PP,PS	8905	MG	42
RF&P:EMD GP35/40/40-2	PA,PP,DD	8906	MM	24
UP:GE Dash 8-40C	PA,PP,DD	8905	MM	24
WC:EMD GP35/SD45/SW1200	PA,PP,DD	8909	MM	32
2.78 Weathering Techniques				
Airbrush	FULL CM,MP,PP	8903	MR	128
Basic Airbrush Weathering	MP,CM	8912	RJ	52
Coloring Wood:Magic Markers	FM,MP	8910	RC	93
Over Lettering	MP,CM	8912	MR	99
Patina-It-A-West	PR	8910	SM	8
Peeled Paint With Pastels	CM,MP	8909	RC	68
Waterbase Medium	CM,MP	8911	MR	88
Weathering With Cotton Swabs	MP,CM,FM	8909	RJ	15
Weathering	FM,MP	8901	NG	23
2.8 Psychological Aspects of Model Railroad				
9th NG Convention	Editorial	8911	NG	5
Background Information	Editorial	8902	RC	6
Layout Burnout	Editorial	8911	RC	122
2.9 Contests				
1988 O Sc Nat'l Conv Con Winners	MP	8810	ON	34
1989 Chgo:Ind O Sc Maxi-Meet:Winners	MP	8904	ON	34
1989 O Sc Nat'l Convention:Winners	MP	8907	ON	25
Astrorail '89 SWN Contest	LIST	8912	BL	6
Convention Winners	MP	8911	NG	84
Houston NMRA	MP,N	8909	NS	22
Houston TX:NMRA Mdis	MP	8909	MM	78
Lionel Contest		8902	BL	6
Mr Photo Winners	MP	8903	MR	72
NMRA Astrorail	Article	8912	RC	128
NMRA Contest: Houston	LIST	8905	BL	6
O Scale Railroad and Lionel Kbsh	MP	8910	OR	46
RR Prototype Mdis:NMRA 89 National	MP	8910	MM	39
3) TRACK AND BENCHMARK				
3.8 Room for a Layout				
Car Bodies:Colors:Matr	PA,PP	8907	ON	22
Car Interiors:Color & Material	PP	8901	ON	20
Car Roofs:Colors:Matr	PP	8904	ON	25
Garages	CM	8901	MR	171
Track Maint		8903	MR	124
3.1 Sectional Track Layouts				
Simpler Modular Setup	CM,MP	8909	NS	58
3.2 Layout Design Techniques and Plans				
Computer Drwg	CM,MP,PP	8904	MR	90
Control Panel	CM,CD,MP	8911	MR	120
Evolution of Operation	MP	8911	RJ	40
HO to O Plan Cwn:Lyt Degn	Article	8711	DN	19
N-Trak Module Manual:N-Trak	BR	8902	MM	21
Plans to Scale	CM	8912	MR	192
Track Design	Editorial	8909	RC	6
3.20 Design Considerations				
Deep Creek ID:Crr Realism/Interest	CD,PP	8903	MM	61
Float Connection	CD,SD	8907	BL	35
Laying out Lyt	MP,N	8906	BL	33
Logistics of a Mdl RR		8906	BL	23
Movable Bridge	CM,DD	8901	BL	32
Multilevel Pikes	DD	8904	BL	33
Norm Grant's Outdoor C&S	MP,L,PP,CM,G	8910	RJ	33
Scale & Gauge		8909	BL	25
Slight Grades For Better Operation	CM,MP,N	8911	NS	52
Transworld Railways System	PN,LP	8911	RJ	30
The Case For	MP	8906	MM	60
3.21 Design Techniques				
Carolina-Hobby:Design Templates	PR,MP,N	8908	RC	98
D&H:Upper Second Division	Ltr	8907	RC	16
D&H:Upper Second Subdivision	FULL CD,DD,CM,MP	8904	RC	87
D&H:Upper Second Subdivision	Full CD,DD,CM,MP	8905	RC	89
Grade Percentage	DD	8909	MG	33
3.23 Plans Indexed by Model Railroad Name				
California Lines	LP,O,CM	8909	RJ	16
New England, Berkshire & Western	MP,L,PP,HO	8912	RJ	32
T-D&FAP RR	MP,L,PP,CM	8907	RJ	12
York Haven Railroad	MP,L,PP,HO	8911	RJ	32
3.24 Plans Based on a Prototype Railroad				
ATSF Fresno Yard, California Lines	O,LP,CM	8909	RJ	16
D&H:Upper Second Subdivision	FULL CD,DD,CM,MP	8904	RC	87
Intermodal/Team Yard, Staging	PP,PA,LP	8910	RJ	38
Ottawa Silca Sand Plant	PP,L,PP,CM,PA	8909	RJ	28
3.25 Plans by Layout Size and Railroad Type				
11 X 12-3 HO T-D&FAP RR	MP,L,PP,CM	8907	RJ	12
25 X 35 York Haven Railroad	MP,L,PP,HO	8911	RJ	32
30 X 120 NEB&W	MP,L,PP,HO	8912	RJ	32
47 X 33 California Lines	O,LP,CM	8909	RJ	16
9' X 12'	CM,DD	8901	BL	32
3.27 Plan Design Based on Railroad Function				
10 X 22-9 Ntrak Modular Layout	LP,MP,N	8908	RJ	40
3.3 Night-of-Way Construction				
Ballast Vegetation	FULL CD,DD,MP	8912	BL	42
Crossing Signal	CM,WD	8901	MR	20
Christmas Putz:6X6	LP,SD,DD,CM,MP	8912	OR	59

CLASSIFICATION KEYWORDS	CONTENTS NOTES	DATE	PERIODICAL	PAGE
Covers For Modules:Ptiv	FULL CD,DD	8901	ON	40
Detailing	MP,PP	8906	MR	78
Gargraves Track:Use:Mdfy	Ltr,CM	8906	OR	52
Lightweight Cstn	MP,DD,N	8903	BL	21
Laying and Ballasting	CM,MP,N	8911	NS	14
NH Society Bench Work	CM,DD,O	8911	MG	53
NH Society Benchwork; II	CM,DD,O	8912	MG	32
Rdbed & Tables		8903	MR	124
Sievers:Benchwork	MP,PR	8907	SG	13
Threaded Rod Support	CM,MP	8908	MR	116
Ultra-Light Benchwork:Modules:PTIII	FULL CD,DD	8901	ON	40
Vinyl Roadbed:Mainline Modules	PR,Sn3	8910	SM	8
Vinyl Roadbed:Mainline Mdis	PR,N,HO,S,O	8907	MM	25
3.4 Turnouts; Crossovers; Crossings				
Building, Kit Bashing Turnouts	FULL CD	8911	RJ	12
Derail Proofing Atlas HO Turnouts	MP,PR,CM,HO	8912	RJ	16
Dual Gauge Wiring	CD	8909	MR	128
Lemaco/Walters - Switch Machine	REVIEW MP	8905	MR	37
Motor-Driven Machines Added	FULL CD,WD,MP	8903	RC	83
NMRA Gauge to Prevent Derailments	MP,CM	8910	RJ	23
Review	HO,MP	8906	MR	41
Replacing Twin-Coils	FULL CD,WD,MP	8903	RC	83
Scratch Turnouts	FULL CD,MP	8912	MR	104
Switch Machines	Letter,WD	8906	RC	8
Turnout Fixtures	FULL CD,MP	8909	BL	31
Turnouts (LGB)	MP,PR,G	8909	NG	15
Wharton Switch	CD	8911	MR	172
3.5 Switch-Operating Devices				
Choke Controls	FULL CD,MP,DD	8903	BL	14
Operating Switchstands	CM,DD	8907	BL	41
SWH Dis:High Sierra Mdis	PR,O	8908	MM	24
SWH Stand:Rix Prod	PR,MP,HO	8907	MM	25
Turnout Control	LETTER,DD	8908	BL	47
3.7 Catenary & Trolley Wire Installation				
Basic Pole Assembly	CD,DD,MP	8911	MG	27
Heavy Duty Overhead:Part II	FULL CD,MP	8902	OR	38
Jason's Brass Poles	PR,S	8903	SG	51
3.9 Yards & Servicing Facilities				
CPR St. Henri Switchback	PP,MP	8906	MG	58
Sliding Rails	CM,CD	8905	MR	66
4) RAILROAD AND OTHER TRANSPORTATION EQUIPMENT				
4.0 Passenger Train Cars				
End Dtl	CD,MP	8905	MG	24
Heavyweight Kbsh	HO,FULL CD,MP	8904	MR	106
Heavyweight Kbsh	HO,FULL CD,MP	8905	MR	104
Lighting	CD	8908	MR	118
Pullman Car Names	Editorial	8911	RC	6
Pullman Std>Loading For Export	PA,PP	8910	MM	70
Short Steam & Diesel	PP,HO,CM	8910	MR	77
Stainless Steel	CM	8905	MR	122
Sway Belly	CM,MP	8903	MR	89
4.01 Baggage, Express &/or Mail cars				
C&S Baggage Car	SD,DD	8907	NG	50
C&S Postal Baggage Car	SD,DD	8907	NG	50
D&RGW Pgr Cars	PP,Letters	8903	NG	78
GN:RPO #58 & #59	PA,SD,HO	8901	MM	44
Kbsh	N,CM,CD,MP	8912	MR	138
OAHU Rwy Baggage	SD	8907	NG	34
RPO:GN #58 & #59	PA,SD,HO	8901	MM	44
Rebid Sleeper	CD,CM,PP,DD	8906	MM	51
Scenery Uni:65' Pgr Cars	PR,MP,S	8903	SG	13
USRA Myth	PP	8905	MG	52
USRA Update	PP,LETTERS	8908	MG	38
V&T Baggage/Mail Car	SD	8909	NG	32
V&T Express Car	SD	8909	NG	32
4.02 Coach Cars				
#5316 62 Seats:GTW	PA,PP,HO,N	8908	MM	42
62 Ft Series 4100-4159:GN	PA,PP,SD,HO	8906	MM	44
C&S Coach #76	SD	8909	NG	49
First Cts 4250-4317:GN	PA,PP,SD,HO	8907	MM	41
GN:62 Ft Series 4100-4159	PA,PP,SD,HO	8906	MM	44
GN:First Cts 4250-4317	PA,PP,SD,HO	8907	MM	41
GN:Smoking Car 71 Seat #3500-3524	PA,PP,SD,HO	8902	MM	42
GTW:#5316 62 Seats	PA,PP,HO,N	8908	MM	42
N&W:Modernized Coach:Kbsh	CD,PP,MP,HO	8910	RC	73
OAHU Rwy Coach	SD	8901	NG	32
OAHU Rwy Coach	SD	8907	NG	34
Smoking Car:GN 71 Seat #3500-3524	PA,PP,SD,HO	8902	MM	42
YVRR:Observation Car No. 330	CD,DD,PP,MP,SD	8902	RC	76
4.03 Combination Passenger Cars				
B&M:Reading Conversions	PA,MP,PR,HO	8910	RC	96
C&S Combine	SD	8909	NG	49
OAHU Rwy Combine	SD	8901	NG	32
PRR Combine	O,HO,N,CM,PP,SD	8911	MR	110
Utah Rwy Combine #50	SD	8909	NG	78
4.04 Sleeping Cars				
AHM 12-1; Kbsh	FULL CD,MP,HO	8907	BL	37
B&O:Pullman Plan 4090G	PA,PP,SD,HO	8909	MM	42
GN:16 Sec #8451-8456	PA,PP,SD,HO	8911	MM	43
GN:Tourist 14 Sec	PA,PP,SD,HO	8910	MM	42
Pullman Grays	FM,PS,MP,PP	8905	MR	119
Pullman Cars, D&RGW	PP,PA	8901	NG	57
Pullman Plan 4090G	PA,PP,SD,HO	8909	MM	42
Rebid to Baggage	CD,CM,PP,DD	8906	MM	51
SP Streamliners	CM,MP	8906	MR	81
SP Streamliners	HO,SD	8906	MR	82
Sipng 16 Sec:GN #8451-8456	PA,PP,SD,HO	8911	MM	43

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
Tourist 14 Sec:GN	PA,PP,SD,HO	8910	MM 42
Troop Sleeper:PRR Bit Class P-78	PA,PP	8904	ON 56
4.05 Chair, Parlor, & Lounge Cars			
B&O:5 Dbl Bdrm Buffet-Lounge PS4165	PA,PP,SD,HO	8905	MM 43
C&O:5 Dbl Bdrm Buffet-Lounge PS4165	PA,PP,SD,HO	8905	MM 43
C&O:Parlor Pullman 7602	PA,SD,HO	8904	MM 46
Compartment Obsv:GN	PA,SD,HO	8903	MM 44
GN:Compartment Obsv	PA,SD,HO	8903	MM 44
MP:Parlor Pullman 7602	PA,SD,HO	8904	MM 46
Named Observations	INDEX	8911	MG 10
Njdot:Parlor Pullman 7602	PA,SD,HO	8904	MM 46
O Gauge Dome Cars:Lionel:Cven	Full CD,MP	8904	QR 44
OAHU Rwy Observation Car	SD	8905	NG 56
4.07 Special Purpose Cars			
CN's Business Car No. 44	PP,SD,HO	8907	RC 78
CN:Business Car No. 44	Ltr	8912	RC 20
Dunn & Duffy Circus Train	PA,PP,MP,CM	8907	RC 50
Neng Excursion Cars	SD	8905	NG 38
Prng & Weathering Hot Metal Cars	CD,MP,HO	8907	RC 73
4.08 Name Trains			
Dinner Excursion	PP	8912	MR 100
Dinner Excursion	HO,N,CM	8912	MR 102
Oriental Ltd:GN 16 Sec Sling #8451-	PA,PP,SD,HO	8911	MM 43
Oriental Ltd:GN RPO #58 & #59	PA,SD,HO	8901	MM 44
Oriental Ltd:GN Coach 62 Ft	PA,PP,SD,HO	8906	MM 44
Oriental Ltd:GN Compartment Obsv	PA,SD,HO	8903	MM 44
Oriental Ltd:GN First Class Coach	PA,PP,SD,HO	8907	MM 41
Oriental Ltd:GN Smoking Car	PA,PP,SD,HO	8902	MM 42
Oriental Ltd:Sleeper 14 Sec Tourist	PA,PP,SD,HO	8910	MM 42
4.1 Revenue Freight Cars			
(LGB)Rolling Stock	PR,MP,G	8901	NG 12
AAR Frt Cars; I	PP	8911	MG 42
BN 50 Ft Airslide, Scratch Built	MP,PP,CD,N	8908	RJ 47
F&CC Cars (Depot G)	MP,PR,G	8909	NG 12
Frt Car Mix	MP,CHARTS	8901	MG 38
Sway Belly	CM,MP	8903	MR 89
Treasures from Trash	CM,MP	8907	MG 60
Using Timpl Cars For O Sc NG	CM,MP,On3	8911	ON 12
4.11 Box Cars			
40' Ps-1 Monons	PA,PP,MP,CD,HO	8904	RC 57
60' Appliance Cars	PA,PP	8910	RC 82
DTI Hi Cube	PS,PP	8902	MR 142
EBT Steel Caboose(Friends of EBT)	PR,MP,On3	8903	NG 13
MP/GCL:40-Ton Boxcars:Kbsh	PA,PP,MP,CD,DD	8903	RC 87
Upgrading C&BT 40 Ft Box Cars	MP,CM,PR,HO	8909	RJ 22
WP&Y Boxcar (Depot G)	PR,MP,G	8907	NG 13
4.111 Single Door Box Cars			
10 Ft Interior AAR Box, 1945-59	PP,CD	8912	RJ 44
1937/42 AAR Std; I	PA,PP,PS	8902	MG 23
1937/42 AAR Std; II	PA,PP,PS	8904	MG 43
40 Ft AAR Style, With Int Imp End	PP,CM	8910	RJ 48
50 Ft Box, 1894 to 1932	PP,PA,CD	8911	RJ 44
50 Ft Box, 1894-1932	PP,PA	8910	RJ 41
50' ACF	PA,PP	8909	MG 27
50' Plug Door	CD,PP,PS	8908	MG 18
60 Ft Auto Parts Box:SSW,WM,RI,N&W	PP,CD	8908	RJ 38
AAR 10's	PA,PP,DD,SD,HO	8905	MM 60
AAR 40 Ft Box, 1945-59	PP,CD	8911	RJ 54
AAR Standard 50'	DD	8911	SG 12
ATSF Post War 40 Ft Box Cars	PP,PA,CD,PS,CM	8909	RJ 25
B&O Boxcars,47-51	CD,PP,FM,PS,PA	8908	RJ 15
Bar 50'	CD,PP,PS	8912	MG 41
C&NW 155000; 50'	CD,PP,PS	8907	MG 32
C&O #5400:Dot-In-Grid End	PP	8910	MM 46
CBT Shops Imp. Ends	MP,PR	8902	MG 48
Chopping C&BT Box to 10 Ft Interior	MP,FULL CD,HO	8912	RJ 49
CPR 50' Plug Door	CD,PP,PS	8912	MG 34
D&H #19194, Ps-1 40 Foot	PP,PS	8906	RJ 14
D&H #19858, Ps-1 40 Foot	PP,PS	8906	RJ 14
D&H Ath Catm 50':HO Catm TR	PR,MP,HO	8911	MM 25
D&H Box Cars	LIST,HO	8908	MG 12
D&RG Boxcar (Trout Creek)	PR,On3	8901	NG 13
D&RGW Boxcar (San Juan Car)	PR,MP,On3	8905	NG 12
Dting:Milw 40/50 Ft	CM,MP,HO	8902	MM 28
Early 50 Foot Boxcars	PP,MP,SD,PA	8907	RJ 44
EL:40'	PP,MP,HO	8907	RC 85
FGE:Dbl Dk Fishbelly #9125	PP	8901	MM 4
GM&O Ath Catm 50':End Cab Mdis	PR,MP,HO	8911	MM 25
GN #39500's:50 Ft	CM,PP,MP,HO	8905	MM 34
Heartland S Rails:5 Car Set	PR,S,MP	8903	SG 14
Imp. Dreadnaught Ends	CD,PP,PS	8902	MG 21
LS&I #2455, Ps-1 40 Foot	PP,PS	8906	RJ 14
MEC; Modf	PP	8910	MG 31
Milw Ribbed Side	HO,SD,PP	8909	MR 94
Milw Ribbed Side Kbsh	N,FULL CD,MP	8909	MR 91
Milw:Composite:Scbt	PP,MP,CD,DD,N	8909	NS 24
Milw:Dting 40/50 Ft	CM,MP,HO	8902	MM 28
Mkt #2394, 50 Foot Box	PP,PS	8906	RJ 18
MNS #1277, Ps-1 40 Foot	PP,PS	8906	RJ 14
Modern Car Survey	HO	8907	RC 18
Monon Ps-1:50 Ft	CD,CM,PP,MP,HO	8906	MM 67
Monon:Plug Dr	CD,PP,MP	8909	MM 70
Modf MDC/Ath-Viking Roof	CD,PP,MP,HO	8910	MM 46
N&W O'Brace #120038 & #42399	PP,PA,SD	8907	RJ 9
NG Boxcar (Puffing Billy)	PR,MP,HO	8905	NG 13
NYC 50' Plug Door	CD,PP,MP	8910	MG 26
On #90602, 40 Foot	PP	8906	RJ 19
On 91000/91078	PP,PS	8906	MG 40

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
OAHU Rwy Boxcar	SD	8909	NG 52
P&LE Dbl Sheath #31789	PP,PA,SD	8907	RJ 9
Paint Chips Wm,B&O,ATSF,SRR,PRR	CD,MP	8908	RJ 14
PRR X29 Box	PP,PA,SD	8912	RJ 56
PRR:X-25 All Stl Fishbelly #93650	PP	8901	MM 4
PRS:50'	MP,PR,S	8911	SG 11
Ps-1 50 Ft:Monon	CD,CM,PP,MP,HO	8906	MM 67
Ps-1; 40'; XII	PP,PS	8901	MG 13
Pullman Mini Hi-Cube	HO,SD	8907	MR 82
Pullman Mini Hi-Cube	N,HO,CM,MP	8907	MR 82
Plug Dr:Monon	CD,PP,MP	8909	MM 70
Reading XMT #100480	PP,PA,SD	8912	RJ 56
RF&P USRA Single Sheathed Box	PP,PA	8908	RJ 46
RI:AAAR 10's	PA,PP,DD,SD,HO	8905	MM 60
RI:AAAR 10's	CD,CM,MP,HO	8905	MM 68
Soo:50' Plug Door	PP,MP,CM,HO	8908	RC 85
SP B50-14 Sgl Sheath:Pacific Ltd	PR,MP,O	8906	MM 22
SP/SSW 60'	CD,PP,MP,PS	8910	MG 45
USRA Steel Side Rebuilds	PA,PP	8909	RC 53
USRA Steel-Side Rebuilds	Full CD,MP,HO,PA	8910	RC 75
USRA Steel-Side Rebuilds	Ltr,PP	8911	RC 10
USRA Dbl Sheath DS:Westerfield	PR,MP,HO	8902	MM 23
USRA Dbl Sheath Rebid:Sunshine Mdis	PR,MP,HO	8906	MM 22
USRA Dbl Sheath Rebid:Sunshine Mdis	PR,MP,HO	8907	MM 24
USRA Dbl Sheath:Scenery Unit	PR,CD,S	8905	MM 22
USRA Dbl Sheathed Wid	PP	8903	SG 8
USRA Storage Box	PP	8901	MM 57
Viking Roof:Modf MDC/Ath	CD,PP,MP,HO	8910	MM 46
Westerfield USRA Boxcar	PR,MP,HO	8907	RC 95
X-25 Fishbelly:PRR #93650	PP	8901	MM 4
4.112 Multiple Door Box Cars			
50 Ft Box, 1894 to 1932	PP,PA,CD	8911	RJ 44
50 Ft Box, 1894-1932	PP,PA	8910	RJ 41
60 Ft Auto Parts Box:CNW,CR,GI,DRGW	MP,FULL CD,PP	8908	RJ 33
AAR 10's	CD,CM,MP,HO	8905	MM 68
Auto 40 Ft:RI	PA,PP,SD,HO	8909	MM 36
B&W 50 Ft:Dts West	PR,CD,HO	8905	MM 23
BN 50 Ft Double Door Plate F Box	PP,MP,CM,N,HO	8912	RJ 42
CB&Q #41589	PP	8909	MG 62
Excess Ht A50-19:UP	PA,PP,DD,SD,HO	8907	MM 50
Excess Ht:UP A50-19	PA,PP,DD,SD,HO	8911	MM 64
GN, USRA	LETTER,PP	8901	MG 34
Greenville 60 Ft Auto Pts:Con-Cor	PR,MP,HO	8910	MM 25
MC #85795	PP,PA,SD	8912	RJ 56
Modeling Pre-1932 50 Ft Boxcars	MP,CD	8911	RJ 49
NKP 40 Ft #22239	PP,PA,SD	8907	RJ 9
NP #39050	PP	8908	MM 87
RI:40 Ft Auto	PA,PP,SD,HO	8909	MM 36
RI:Boxcar:Plug & Sliding Door	MP,PP,HO	8901	RC 87
RI:Auto Rebuilds	PA,PP,SD,HO	8911	MM 46
RI:Wd Chip Rebuilds	PA,PP,SD,HO	8911	MM 46
SP:XMUG Boxcars:Mdl	PA,PP,MP	8905	RC 60
Silverton Northern Box Car #2006	SD,Sn3	8910	SM 18
UP A50-19:Excess Ht	PA,PP,DD,SD,HO	8911	MM 64
UP:A50-19 Excess Ht	PA,PP,DD,SD,HO	8907	MM 50
4.113 All-Door Box Cars			
GB&W Thrall:Life-Like	PR,MP,HO	8908	MM 24
Thrall 55' Dtl	CD,MP,HO	8910	MG 50
4.12 Stock Cars			
AT&SF Cts SK2/3	PA,PP,SD,S	8911	MM 57
D&RGW	INDEX	8908	MG 28
D&RGW 34' Stockcar(Trout Creek)	PR,HO,On3	8903	NG 13
D&RGW Stockcar(Mdl RR Gen'l Store)	PR,MP,HO,On3	8907	NG 13
Harriman 36'	PP,PS	8901	MG 13
Harriman Std 36'	CD,PP,PS	8901	MG 49
Harriman Std:Westerfield	PR,MP,HO	8908	MM 25
PRR K7A:Bit from X-24 Box Cars	PA,PP,SD,HO	8903	MM 42
STLIM&S/MP #51399	INDEX	8908	MG 28
Taurus 36'; Cven	PA,PP,SD,HO	8908	MM 81
4.13 Temperature Control Cars			
Heater Box Kbsh	O,FM,PS,CD,MP,PP	8912	MR 146
MEC:Dairy Car:Kbsh	MP,PP,CD,HO	8906	RC 63
NWX:Reefers	Letter,PP	8903	RC 8
NWX:Reefers	Letter,PP	8903	RC 10
4.131 Refrigerator Cars with Ice Bunkers			
Art History I	PA,PP	8903	MG 50
Art History II	PA,PP	8904	MG 53
Art History III	PP,PS	8905	MG 20
AT&SF:Reefers	Letter	8905	RC 14
D&RGW 40' Reefer(Trout Creek)	PR,MP,HO,On3	8903	NG 13
Dress up Dts	CD,HO	8905	MM 32
Express Refers 50 Ft	PA,PP,SD,N	8904	MM 54
Mather Contest Winner	PP,MP,O	8903	MG 41
Modeling Union Ref Transit Reefers	PP,PA,CD	8908	RJ 50
NWX:1926	Ltr	8907	RC 14
Rwy Xpress Kbsh	HO,FULL CM,MP,PP	8901	MR 116
Truss Rod 36 Ft:Andy W Sc Mdis	PR,MP,O	8901	MM 26
Union Refrigerator Transit Fleet	PA,PP	8906	RJ 51
4.13M Mechanical Temperature Control Cars			
Art History II	PA,PP	8904	MG 53
SP Fe 57'	HO,PS,FM,CD,MP,P	8907	MR 129
4.13V Vented & Insulated Cars			
MEC Dairy: 1506/25	FULL CD,MP,PP,SD	8907	MG 35
Milk Car Colors	LETTER	8907	MG 24
4.14 Flat Cars			
53'6	PA,PP,SD	8903	MG 34
53'6	PP	8904	MG 50

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
Bachmann Flat Car Detail	FM,G	8908 RC	60
Carter Bros Flatcar (Russ Simpson)	MP,PR,CD,1/2in	8909 NG	13
D&RGW 6500-Series Flat Car:Pbl	PR,MP,Sn3	8904 SM	9
Four Truck	O,S,HO,CM,MP,SD	8911 MR	112
Flatcar, 4 Whl (Decker's)	PR,MP,1.5in Sc	8911 NG	13
Logging Kits(American Mdl Bldrs)	PR,MP,1/2	8907 NG	13
NC&STL:Grader Load	CD,CM,MP,DD,HO	8903 MM	38
UP AAR 50T:West Mdl RR Equip	PR,MP,HO	8901 MM	25
NYC:499300-499799	PA,PP,MP,CM	8908 RC	67
Pulpwood Kbh	HO,CM,CD,MP	8908 MR	104
Rex S Gauge Models:42'	MP,PR,S	8911 SG	11
Schnabel Type Kbh	MR,CM,HO	8909 RC	70
UP AAR 50T:West Mdl RR Equip	PR,MP,HO	8901 MM	25
USAX:38016-38665	PA,PP,MP,CM	8908 RC	67
4.14B Bulkhead Flats			
BN	PP	8908 MG	36
BN Bulkhead Flat in N Scale	MP,PP,FULL CD,N	8910 RJ	10
CLC Ctr Beam:LDS W/Magnets	Full CD,MP,HO	8911 MM	30
Center Beam:Columbia & Cowlitz	Full CD,PP,MP,HO	8908 MM	68
Columbia & Cowlitz:Center Beam	Full CD,PP,MP,HO	8908 MM	68
MEC Fm Modf	PP	8910 MG	31
MEC LP Modf	PP	8910 MG	31
Na Ga	ON3 FULL CD,MP,P	8907 MR	64
4.14C Container or Trailer Flats			
ACF Tie Down Hitches	MP,PP,DD	8902 MG	50
B&O 53 Ft TOFC Flats	PP,SD,PA	8910 RJ	28
C&NW Piggyback Service	MP	8902 MM	1
C&NW Piggyback Service Pt 4	PA,PP,DD	8901 MM	61
C&NW Piggyback Service Pt 5	Full CD,MP,DD,HO	8902 MM	24
C&NW:Xtra Trailer Flats:Bld	MP,CM,PP	8903 RC	73
CSX:SeaLand Container Flats Pt1	PA,PP,MP	8907 MM	58
CSX:SeaLand Container Flats Pt2	PA,PP	8908 MM	55
Funaro & Carneal:Milk Container	PP,PR,MP,HO	8907 RC	96
Intermodal Cars	Letter,PA	8901 RC	8
MEC FC Modf	PP	8910 MG	31
Modeling 53 Ft Piggy Back Flats	PP,PS	8907 RJ	11
Piggyback Flats:1960-1969	PP,CD	8909 RJ	35
SeaLand Container Flats:CSX Pt1	PA,PP,MP	8907 MM	58
SeaLand Container Flats:CSX Pt2	PA,PP	8908 MM	56
Spine Car	PA,PP,SD,HO	8907 RC	60
TOFC:Van 40 Ft	CD,CM,PP,MP,HO	8907 MM	36
Trailer Hitches	CM	8901 MR	170
Thrall's Double-Stack	PA,PP,DD	8901 RC	89
Thrall's Double-Stack	Letter	8906 RC	10
Upgrading Athearn Flat For B&O TOFC	MP,FULL CD,HO	8910 RJ	30
4.14B Depressed Center Flats			
C&O F9:Well	Full CD,PP,MP,HO	8903 MM	66
C&O F9:Well Pt 2	Full CD,MP,HO	8904 MM	70
C&O F9:Well Pt 3	Full CD,MP,DD,HO	8905 MM	72
Well Cars:C&O,CSX,NYC,PC,CR	PA,PP,DD,SD,S	8902 MM	38
Well:C&O F9	Full CD,PP,MP,HO	8903 MM	66
Well:C&O F9 Pt 2	Full CD,MP,HO	8904 MM	70
Well:C&O F9 Pt 3	Full CD,MP,DD,HO	8905 MM	72
4.15 Tank Cars			
13, 16, 21,000 Gal	PA,PP,DD	8903 MG	12
13000 Gal Clay Slurry	PP,PS	8903 MG	11
1980's Tank Cars	PP,PA,SD,MP	8907 RJ	49
40' Sulfur:Hbog	PP,MP,CD,HO	8911 RC	91
70-1:UP #70000	PA,PP,SD,HO	8901 MM	74
ACF 16,000 Gal MDC: Cavn	FULL CD,MP,HO	8903 MG	7
Adm Uni-Temp Cars	CD,DD,MP,N	8909 NS	40
Athearn Chem Tank Conversions	MP,PP,CM,HO	8907 RJ	6
Athearn HO and Rivarossi N LPG Tank	PP,CD	8909 RJ	55
CONX #8 Kbh	PP,MP,SD,DD,CD	8911 NG	58
Frameless Tank CRS:Kbh	CD,DD,MP,N	8909 NS	40
N. American Car Co.:Two Dome	PA,PP,DD,HO	8904 RC	68
NG CONX Tank Car	PR,MP,Sn3	8904 SM	8
Sterling Fuel:Mdl	CD,MP,PP,HO	8906 RC	80
Tank Car, Dbl Dome (Jonan)	PR,MP,HO	8907 NG	14
Three Dome	Ltr,PP	8908 RC	12
Union	CM,CD,PP	8908 MR	112
UP #70000:70-1	PP	8901 MM	74
UP:70-1 #70000	PA,PP,SD,HO	8901 MM	74
UP:Logcar:Kbh	Full CD,PP,HO,MP	8911 RC	94
UTLX 50 Ft:MDC Walther's Custom Pnt	PR,MP,HO	8903 MM	23
Scribd:10,000 Gal	MP,CM,Q	8904 OR	25
4.16 Gondola Cars			
48' STL:B&M	FULL CD,DD,MP,HO	8911 MG	22
AAR 53'S	PP,MP	8901 MG	12
AAR 53'S	PP,PS	8901 MG	21
C&O 100 Ton Coal Gondolas	PP,SD,PA	8912 RJ	19
D&RGW Pipe Gon (Rick's Grande)	PR,MP,HO,Sn3	8901 NG	14
Drop Bottom:GTW	PA,PP,SD,HO	8903 MM	50
GN #76949, GS Gondola	PP	8906 RJ	19
GTW:Drop Bottom	PA,PP,SD,HO	8903 MM	50
Gondola:Rensselaer Mdl RR Soc	PR,MP,HO	8903 MM	22
Gondola:Rutland Hist Soc	PR,MP,HO	8903 MM	22
Low Side	Ltr	8908 RC	14
MEC Modf	PA,PP	8909 MG	10
MEC:Low Side	Letter	8910 RC	7
MEC:Low Side	Ltr	8907 RC	19
MEC:Low Side Gon 17000-17149	PA,PP,SD	8905 RC	76
Modifying MDC Railgon For CB&Q	MP,FULL CD,HO,N	8909 RJ	14
MP Panel Side:Sunshine Mdl	PR,MP,HO	8904 MM	22
Mill:Precision Sc	PR,MP,O	8903 MM	22
National Cast AAR 53'S	FULL CD,MP,PR,HO	8901 MG	17
OAHU Rwy Gondola	SD	8905 NG	56
Ore Cu Concentrates	PA,PP	8909 MM	26

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
Proper Ptyp	MP,PP,HO,N,S	8901 MG	21
PRR 52'S	PP,PS	8904 MG	6
Scratch Building C&O 100 Ton Gons	MP,FULL CD,HO	8912 RJ	23
4.17 Hopper Cars			
ACF 2 Bay:Monon	CD,MP,HO	8910 MM	44
Brake System	CD	8905 MR	131
C&NW:Panel Side Quad	PA,PP,DD,SD,HO	8908 MM	74
C&NW:Quad	PA,PP,SD,HO	8907 MM	47
C&O #63496 2 Bay	PP	8905 MM	21
C&O:Comp	CD,CM,MP,HO	8908 MM	30
CRR #51252:Offset Side	PP	8901 MM	47
CRR:Dtl Athearn Offset Side	CD,CM,PP,MP,HO	8901 MM	47
Composite:C&O	CD,CM,MP,HO	8908 MM	30
EBT Hoppers:Multi Sc:Chicago Express	MP,PR,HO,S,O,NG	8909 NG	16
Monon:ACF 2 Bay	CD,MP,HO	8910 MM	44
N&W H10: I	CD,PP,MP,DD,HO	8908 MG	52
N&W H10: II	FULL CD,MP,HO	8909 MG	31
Offset Side Athearn Dtl:CRR	CD,CM,PP,MP,HO	8901 MM	47
P&S Hoppers	PP,PS	8911 MG	26
PA Quad	O,HO,CM,S, SD	8908 MR	74
Panel Side Quad:C&NW	PA,PP,DD,SD,HO	8908 MM	74
Quad:C&NW	PA,PP,SD,HO	8907 MM	47
SAL/CB&Q:Whale Belly Cmt	PA,PP,SD,S	8911 MM	54
SBD #976609 Whale Belly	PP	8911 MM	54
Side Dump: Southern	PP	8902 MG	37
USRA 2 Bay:Tichy Train	PR,PP,DD,HO	8905 MM	21
Whale Belly:SAL/CB&Q Cmt	PA,PP,SD,S	8911 MM	54
4.17C Covered Hopper Cars			
Ann Arbor	CM,MP,DD,HO	8912 MG	22
Art History II	PA,PP	8904 MG	53
Art History III	PP,PS	8905 MG	20
C&NW:Pnl Side Sand	PA,PP,SD,S	8911 MM	72
C&NW:Sand Car X263824MWM	PP	8907 MM	49
CN:113020-113169 Hoppers:Mdl	PA,PP,HO	8902 RC	97
CNR Slab-Side	PP	8904 MM	88
CPR Slab-Side	PP	8904 MM	88
Ctr Flow:NYC	Full CD,MP,HO	8911 MM	66
Farmers Co-Op Ath 54'Ps:Hobby Haven	PR,MP,HO	8911 MM	25
Genstar Cement PLCX #131 37"IL	PP	8904 MM	24
M&Stl 3 Bay	CM,MP,PP,HO	8912 MG	30
MEC Modf	PA,PP	8909 MG	10
Mkt #427, 2 Bay	PP,PS	8906 RJ	18
Mkt #494, 2 Bay	PP,PS	8906 RJ	13
Monon:Two-Bay:Mdg	PP,MP,CM,HO	8912 RC	69
NYC:Ctr Flow	Full CD,MP,HO	8911 MM	66
PS2:Con-Cor	PR,CD,HO	8908 MM	24
PSPX #9090:Pulman 5820 Cu Ft	PP	8904 MM	24
Pnl Side Sand:C&NW	PA,PP,SD,S	8911 MM	72
RDG:Loc	PA,PP,CD,HO	8906 RC	61
Sand Car:C&NW X263824MWM	PP	8907 MM	49
Super Dting AFC Centerflow	FM,CM,DD,N	8907 NS	50
Tnplt Trks on Weaver CF Hoppers	Full CD,CM,MP	8907 ON	53
4.18 Unique Design Revenue Cars			
Coil Steel Kbh	HO,CM,CD,MP	8911 MR	90
Cushion Coil Hoods:Walther's	PR,MP,HO	8901 MM	27
Disconnect Log Trucks:Sumpter Vly	PR,MP,O	8906 MM	22
MEC Pulp Wood	PP	8910 MG	31
Mkt #14025, Cushion Coil Car	PP,PS	8906 RJ	18
Russell Log Car (Simpson)	PR,MP,1/2	8911 NG	14
Skeleton Log Cars(PS)	PR,MP,O	8911 NG	14
Snohomesh Log Truck(Sumptervidepot)	PR,MP,O	8905 NG	15
West Side Log Car (Pbl)	PR,MP,Sn3	8905 NG	15
West Side Log Trucks(Beaver Creek)	PR,MP,O	8905 NG	14
Wood Chip Car	CD,DD,MP,N	8907 NS	24
4.2 Locomotives			
Upgrdg Mdl Locos:Think Piece:Pt I	Article	8902 OR	18
Upgrdg Mdl Locos:Think Piece:Pt II	Article	8904 OR	24
4.21 Steam Locomotives			
Allentown-Bethlehem, PA RR's	PA,PP	8907 LQ	42
B&M Power:Pt 1	PA,PP	8910 LQ	1
Baldwin Narrow Gauge No. 9	PA,PP,SD,SN3	8909 RC	62
Bender, Henry E:Misc RR's	PP	8910 LQ	62
Brandon:Manitoba Area	PA,PP	8310 LQ	46
C&O:2-6-2	PA,PP	8907 LQ	24
Denney, John D:Misc RR's	PP	8907 LQ	62
Frisco 4-8-2 1522 Restoration	PA,PP	8903 TR	22
Isaac,L.G.:Michigan Area RR's 35-55	PP	8904 LQ	60
Lehigh Valley 4-8-4's	PA,PP,PM	8902 TR	30
Loco Regauging	PP,DD,CD	8911 NG	80
M&V:No.7:2-8-0:Kbh	PP,MP,CD,DD	8912 RC	80
Millw Power:Pre-1925	PA,PP	8904 LQ	1
Millw Power, Post-1925	PA,PP	8907 LQ	1
Macon, Ga RR's:CG:Sou:Ext:	PA,PP	8910 LQ	52
Mich-Cal Shay #2:Scbt	CD,MP,Sn3	8904 SM	23
NCNGRR:No.9:2-8-0	Ltr	8912 RC	20
New Georgia's A&WP 4-6-2 290	PA,PP	8912 TR	31
New Haven 4-6-2	PA,PP	8904 LQ	38
Nickel Plate 2-8-2 587	PA,PP	8905 TR	50
Pere Marquette 2-8-4 1225	PA,PP	8904 TR	42
SP:2-8-0	Letter	8905 RC	7
SP:2-8-0:Kbh	CD,MP,HO	8902 RC	75
South African Steam Reprieve	PA,PP	8903 TR	20
Steam Loco Components:Description	SD	8902 OR	26
Steam Loco Components:Description	Ltr	8906 OR	49
U.S. Ten-Wheelers in Norway	PA,PP	8902 TR	40
UP 4-6-2:Harriman:Lght & Heavy	PA,PP	8910 LQ	36
UP 4-6-6-4 3985	PA,PP	8907 TR	28
Union 0-10-2 303	PA,PP	8911 TR	38

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
VGN at Roanoke, Va	PA,PP	8904	LQ 48
Whistle	CM,WD,MP	8907	MR 68
Working Headlights	N,FULL,CD,WD,MP	8908	MR 85
4.218 Locomotives by Prototype Railroads			
Austin City Rwy 2-4-0	SD	8901	NG 48
B&A 4-6-6-T	PA,PP,SD,HO	8905	MM 28
B&M P4A: 4-6-2	PP,SD,HO	8909	MG 34
B&O 4-6-2 #5043 Cincinnati Oh	PP	8905	MM 38
C&O #284 USRA 0-8-0	PP	8907	MM 2
C&O 4-8-4 #600	Pntg	8911	MM 1
C&O 2-6-6-2	PA,PP	8907	LQ 24
CB&Q: 2-10-4 CIs M4 & M4A	PA,PP,DD,SD,S	8902	MM 54
CB&Q: 2-10-4 CIs M4 & M4A	PA,PP	8903	MM 30
CMStP&P 4-6-0 #1446:Overland	PR,MP,HO	8911	MM 25
Carson River Mills: Porter Locos	SD	8901	NG 49
D&RGW K-36 (Om)	PR,MP,On3	8907	NG 14
DL&W 4-6-4's	PA,PP	8910	LQ 50
DM&I 2-8-8-4	PS,PP	8911	MR 184
EBT 2-8-2 (Hmk)	PR,MP,On3	8903	NG 12
Elevated Rwy 0-4-4: Forney	SD,PP	8901	NG 50
Isthmus Transit Loco	SD,1/4	8901	NG 5
M&P: 2-8-0 #42	PP	8902	MM 88
M&U: 4-4-0 No.6	Ltr	8911	RC 8
M&V: 4-4-0 No. 6	PP,MP,SD,HO	8908	RC 82
MEC 4-6-0 #367:Notchland Me	PP	8903	MM 70
Mich. Cal Shay #2:Scbt	CD,MP,Sn3	8904	SM 23
N&W #602:Kenova WV	PP	8901	MM 56
N&W #611:Shroud Const	PP	8901	MM 56
N&W 2-8-8-2 #2147:Bluefield WV	PP	8903	MM 70
N&W 4-8-2 #136 Cincinnati Oh	PP	8905	MM 38
NKP #587	PA,PP	8907	MM 75
NKP #587: 2-8-2	PA,PP	8905	RF 36
NYC 4-6-0 F12A:Precision Sc	PR,MP,HO	8907	MM 25
NYC 4-6-4 #5266 Cincinnati Oh	PP	8905	MM 38
New Haven 4-6-2	PA,PP	8904	LQ 38
PRR 2-10-4	PA,PP,SD,S	8907	MM 62
PRR 4-4-2	INDEX	8907	MG 10
PRR 1-12-10-0:DJ KTM Model	CM,CD,MP	8908	OR 24
Pioche Pacific 270	PP,SD	8903	NG 50
RDG: 0-4-0 Camelbacks	PP	8910	MM 88
Runtland 4-8-4	PS,FM,MP,PP	8904	MR 117
Sf 2-10-10-2	S,SD,PP	8905	MR 85
SLSF #1522: 4-8-2	PA,PP	8901	RF 56
SP NG #22	SD,PP	8911	NG 50
SR PS4:Kelley Morris	MP	8903	MM 1
SSW #819: 4-8-4	PA,PP,PM	8902	RF 40
SOU PAC Coast RR 4-6-0	SD	8907	NG 31
Steam Dummy, Yeon & Pelton, Kbsh	MP,CD,PP,On3	8905	NG 18
Sullivan County: 4-4-0 #601	PA,PP	8904	ON 57
UP #8444 Caliente NV	PP	8905	MM 38
UP 4-12-2:Key Imports	PR,MP,HO	8905	MM 23
UP 4-6-2:Harriman:Light & Heavy	PA,PP	8910	LQ 36
UP 4-6-6-4:Key Imports	PR,MP,O	8907	MM 23
UP X8444:Wagner Mill Schuyler NE	PP	8905	MM 1
US Army Cofeng Locos	SD	8901	NG 17
Utah Rwy Loco #20	SD	8909	NG 78
Wm:Shay 3 Truck #6	PP	8902	MM 88
WP:Baldwin 2-8-8-2 Pt 1	PA,PP,DD	8909	MM 60
WP:Baldwin 2-8-8-2 Pt 2	PA,PP,SD,S	8910	MM 60
4.211 Locomotives by Prototype Builder			
Alco 4-8-4	PS,FM,MP,PP	8904	MR 117
Alco 4-6-6-T:B&A	PA,PP,SD,HO	8905	MM 28
Baldwin 2-10-10-2	S,SD,PP	8905	MR 85
Baldwin 0-4-0 Camelbacks:RDG	PP	8910	MM 88
Baldwin 2-10-4:CB&Q CLS M4 & M4A	PA,PP,DD,SD,S	8902	MM 54
Baldwin 2-10-4:CB&Q M4 & M4A	PA,PP	8903	MM 30
Baldwin 2-4-0	SD	8901	NG 48
Baldwin 2-8-8-2:WP Pt 1	PA,PP,DD	8909	MM 60
Baldwin 2-8-8-2:WP Pt 2	PA,PP,SD,S	8910	MM 60
Baldwin: US Army Cofeng Locos	SD	8901	NG 17
C&S #22	SD	8905	NG 50
Forney:Elevated Rwy 0-4-4	SD,PP	8901	NG 50
Kemtron Three-Truck Shay:Kbsh	CD,MP,On3	8901	RC 99
Lima Scrapbook	PA,PP	8904	MM 68
Mason Bogie (Om)	PR,MP,On3	8907	NG 14
Porter 0-4-0	SD	8905	NG 72
Porter 0-4-2	SD	8905	NG 72
Porter : Carson River Mills	SD	8901	NG 49
Porter Locos	PP	8901	NG 78
Shay:Three-Truck:Kbsh	CD,MP,On3	8901	RC 99
4.21M Building Model Locomotives			
0-4-0T:Grandt Porter 8-Tn:Kbsh	On2,CM,MP	8907	ON 58
AHM Dockside: Cven	FULL,CD,DD,MP	8908	BL 37
Backhead Gages & Lights:Dting	O,PP,MP	8901	ON 27
Cylinder Blocks:Building	FULL,CD,MP,DD	8902	OR 20
FLN Porter Loco	MP	8905	NG 74
Kadee Couplers For Bachmann Sd-40-2	N,MP,FULL,CD	8909	RJ 10
Mich-Cal Shay #2:Scbt	CD,MP,Sn3	8904	SM 23
Narrow Gauge Shay	MP,DD,Nn3	8909	NS 44
Radio Cntrl and Moving Engineer	O,PP,MP	8904	ON 27
SR PS4:Kelley Morris	MP	8903	MM 1
Small Steam Engines:Using Coml Prts	MP	8904	OR 38
Working Smoke Unit	O,PP,MP	8904	ON 41
4.21T Modifying Toy Locomotives			
PRR 0-4-0 to 0-6-0:Lnl Cven:Pt 1	FULL,CD,MP,DD	8902	OR 22
PRR 0-4-0 to 0-6-0:Lnl Cven:Pt 2	FULL,CD,MP,DD	8904	OR 40
PRR 0-4-0 to 0-6-0:Lnl Cven:Pt 3	FULL,CD,MP,DD	8906	OR 42
Repowering Bachmann Consolidation	FULL,CD,DD,N	8910	RC 88

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
4.22 Electric Locomotives			
4.22a Locomotives by Prototype Railroads			
Frisco #593:601	PP	8906	MM 54
Galpin Shay (Om)	MP,PR,On2	8909	NG 13
KCS #663:690	PP	8908	MM 54
Modern Trolley	PP	8910	MR 89
Modern Trolley	S,SD	8910	MR 90
PRR GG1:Marketing Corp of America	PR,MP,No.1	8908	MM 25
Reading GP7 Fm American Mdl GP9	MP,CM,PP,S	8911	SG 33
San Diego Trolleys	PP,LP	8910	MR 82
4.221 Locomotives by Prototype Builders			
Dickson 0-4-OST	SD,PP	8905	NG 28
4.23 Diesel Locomotives			
Atheam Elect Hook up Kit	HO,PR	8907	MR 47
Cal Scale - PA RR Detail Parts	PR,MP	8912	MR 64
Con Cor SW1500 Modifications	N,CM,MP	8907	MR 84
CPR:SD40-2:DI	PP,CD,MP,HO	8903	RC 49
Detailing Steel Mill Switchers	PP,MP,DP,HO,FM	8911	RC 80
EMD F45 F45:W&R Entp	PR,MP,N	8901	MM 27
EMD Ft 103's 50th Birthday	PA,PP	8912	TR 20
EMD GP7	DD,PP	8905	SG 36
F&E Unit Pts:Dtla West	PR,CD,HO	8905	MM 23
Freelanced Industrial Diesel:Kbsh	CD,MP,SD,Sn3	8910	SM 23
GE C30-7 Sh:Rail Pow Prod	PR,MP,HO	8904	MM 23
GP18 Dwg Corrections		8910	MR 14
Geep:Looking At	PA,PP	8905	SG 30
Geeps from 1949	PA,PP	8905	SG 18
Horn	CM,WD	8902	MR 108
Imprvd Pickup	HO,CM,MP	8909	MR 129
Large Scale 1.6	MP	89	MR
Lighting Diesels		8912	MR 124
Lighting N Scale	N,CM,MP	8908	MR 120
NP:F-3	CD,FM,MP,N	8909	NS 18
Overland Mdl:RS Alco	MP,S	8907	SG 12
Repowering	HO,CM,MP,CHARTS	8906	MR 70
Repowering Atlas	N,CM,MP	8902	MR 134
Retro-Frames:N Sc of Nevada	PR,CD,N	8904	MM 23
Trains Motive Power Survey	PA,PP	8910	TR 32
UP:Bamberger	Letter,PA	8901	RC 8
UP:Bamberger	PA,Letter	8902	RC 8
WP:Swg:606:Mdl	PA,PP,MP,CD,HO	8901	RC 64
4.23a Locomotives by Prototype Railroads			
AA:EMD GP35	PA,PP,DD,PS	8903	MM 24
Alco PA-1, ATSF #58	PP,FULL,CD,	8909	RJ 6
Ar:EMD GP40-2	CD,PP,MP,HO	8911	MM 61
AT&SF:FP45	PP,PA	8912	RC 58
ATSF #5511:EMD SD45-2B	PP	8904	MM 2
ATSF #5685	PP	8903	MM 71
ATSF #573:EMD SD45-2	PP	8907	MM 88
ATSF:EMD SD45B High Hood	PA,PP,SD,HO	8903	MM 54
Amtrak:EMD F40PH	PA,PP,PS,DD	8908	MM 52
B&LE:SD18:Mdl	PP,SD,CD,MP,HO	8905	RC 65
B&M F3A and B Units	PP,PA,PS	8907	RJ 40
B&M's Maroon & Yellows	PS,PP	8911	MR 186
BCR #943:GE 70T	PA,PP,SD,S	8901	MM 32
BCR SD40-2 #751-759	CD,PP,PS	8907	MG 56
BN #7500 & 7501:EMD SD40-2B	PP	8903	MM 34
BN #7500:EMD SD40-2B	CD,PP,MP,HO	8903	MM 34
BN #9861:EMD SDP45	PP	8907	MM 88
BN/LMX Lease:GE B39-8	PA,PP,PS,DD	8911	MM 26
BN:EMD SDP40	CD,PP,MP,HO	8906	MM 34
BN:GE U30C U33C C30-7	PA,PP,PS,DD	8907	MM 26
C&NW GP38-2: #4613	CD,PP,PS	8912	MG 44
C&O EMD BI-2 #83	PP,PA,CD	8911	RJ 10
C&O GE U30C:Kato	PR,MP,N	8911	MM 23
CB&Q #940:EMD GP30	PA,PP,SD,HO	8906	MM 38
Classic F3: IV	PP,PS	8902	MG 20
Classic F3: V	CD,PP,PS	8904	MG 36
CN C424 #3216, #3230	CD,PP,PS	8901	MG 30
CN G-8 Locomotive:Modf	Article,Sn3 1/2	8904	SM 22
CN M630	PS,PP	8902	MR 158
CNJ:GP40P	PA,PP,PS,DD	8901	MM 28
CPR C424 #4220, #4213	CD,PP,PS	8902	MG 16
CR C32-8 #6618, #6619	CD,PP,PS	8903	MG 32
CR:GE C32-8	CD,MP,HO	8909	MM 28
CR:GE Dash 7 & 8's	PA,PP,DD,PS	8902	MM 73
CSX (C&O) #6070	PR	8909	RC 109
CSX SD40 #8420	PP,PS	8912	RF 4
Conrail,Alco RS-3:Dting Weaver	O,CM,CD,MP	8808	OR 30
D&RGW:EMD SD40-T-2	FULL,CD,PP,MP,HO	8905	MM 46
Dakota Sou SD7 #512	PP,PS	8902	RF 62
DL&W,E-L EMD F3 A and B Units	PP,CD,PS	8909	RJ 36
E&J:EMD SD38-2	PA,PP,DD,PS	8904	MM 32
EMD GP15-1 As CR #1633	PP,PA,CD	8910	RJ 8
EMD GP7, PRR #8557, Details	PP,PA,CD	8908	RJ 6
EMD SD60 For Oakway Leasing	PP,CD	8912	RJ 6
Fec GP9 #664	CD,PP,PS	8909	MG 56
Fox River VI SD24: 2401	PP,SD	8909	RF 2
Frisco GP38 Kbsh	HO,FM,PS,CM	8912	MR 120
GB&W #310	PS,PP	8906	MR 113
Ge Northeastern GP18 #8704	PP,PS	8910	RF 4
GE Dash 8 40B	PP	8909	MM 2
GE Dash 8 40B	SD,S	8904	MR 84
GE Dash 8 40B	PP,PS	8901	RF 4
GE Demo B39-8W #809	PP,PA,PS,CD,HO	8907	RJ 42
GE U25B As SP #6750	PA,PP,SD	8912	RC 73
GE-166 Electric	PP,PA,PS	8907	RJ 41
GM&O F3A and B Units			

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
Rail Car, Steam	PP,SD,DD	8907	NG 72
4.32 Electric Cars			
Bachmann Flat Car Detail	FM,G	8908	RC 60
Brill Gas-Electric:C&O	PA,PP	8901	MM 38
C&O:Brill Gas-Electric	PA,PP	8901	MM 38
O'Dell Co Cars Kbsh	HO,FULL CD,MP	8904	MR 67
Traction Action	PP	8902	BL 17
Traction Action	PP	8905	BL 38
Traction Action	PP	8908	BL 13
Traction Action	PP	8910	BL 14
4.32M Modeling Cars			
KD Cplr For Trolley Car Use	CM,CD	8908	OR 46
4.33 Diesel-Electric Cars			
B&M:Del Electric Rail Car	PA,PP,SD,HO	8903	MM 72
Del Electric:B&M	PA,PP,SD,HO	8903	MM 72
Railcar Modf	MP,CD,Sn3	8903	NG 42
Railcars, Hawaii Consol. Rwy	SD	8903	NG 58
4.33M Building Model Cars			
Rail Car Kbsh	CD,SD,MP,On3	8905	NG 52
Railcar, Kbsh	MP,CD	8909	NG 36
4.34 Motorized Cars			
NG Rail Truck, MOW, Scbt	SD,CD,MP,On3	8909	NG 72
San Joaquin Motor Car #501	SD	8911	NG 79
4.34B Cars by Prototype Railroad			
SR&RI Railbus Scbt	MP,CD,SD,DD,3/4	8903	NG 43
4.34L Building Large Scale Cars			
Rail Car, Scbt	PP,MP,CD,SD,1/2	8911	NG 23
4.34M Building Model Cars			
Railbus Scbt, SR&RI	MP,CD,SD,DD,3/4	8903	NG 43
4.4 Non-Revenue Cars			
Sway Belly	CM,MP	8903	MR 89
4.41 Caboosees			
Caboosees	PP	8908	MM 82
D&RGW: Pritg	LETTER,DD	8901	BL 48
Inexpensive Dtl	CD,MP,PP,HO	8909	MG 52
LGB: Cvsn	FULL CD,MP,G	8902	MG 6
Modern Kbsh	HO,CM,SD,MP	8904	MR 78
Northeastern GN; Kbsn	FULL CD,MP,HO	8905	MG 58
Scenery Unlimited:ATSF Caboose	MP,PR,S	8911	SG 10
Sumpter Valley Caboose	PR,MP,On3	8903	NG 12
Two Caboosees	ON3,CM,CD,MP	8903	MR 108
Transfer Caboose:Kbsh		8905	RC 84
V&T Caboose	PR,MP,HO	8903	NG 12
4.41B Caboosees by Prototype Railroad			
BN Ext Vision:Con-Cor	PR,MP,N	8908	MM 23
Fac:800 Series	PP,PA,SD,CM,HO	8902	RC 72
Mkt #21	PP	8906	RJ 18
NKP:RSD:2Mdl	PP,MP,CD,HO	8907	RC 57
NP:Bay-Wdw 36' Box Rblid	CD,PP,MP,SD,HO	8904	MM 36
PRR N5 Cabin Car	PP,SD,PA	8912	RJ 56
RG Modernized Kbsh	HO,FM,CM,CD,MP	8902	MR 138
RGS Caboose (Mdl RR General Store)	PR,MP,HO,On3	8905	NG 14
SP:Steel	PR,MP,CM,HO	8911	RC 63
WP&Y Caboose (HO,On3)	PR,MP,HO,On3	8907	NG 12
4.412 Caboosees by Type			
Bay-Wdw 36' Box Rblid:NP	CD,PP,MP,SD,HO	8904	MM 36
Ext Vision BN:Con-Cor	PR,MP,N	8908	MM 23
4.41L Modeling Large Scale Caboosees			
RGS Caboose (MDC)	MP,PR,G	8909	NG 15
4.41M Modeling Caboosees			
Texas 8 Wbl Wd Caboose:Freinc:Pt1	CD,SD,DD,MP,PP	8910	OR 28
4.43 Snow Plows & Snow Blowers			
Snow Plow (Pacific Mdl)	PR,MP,1/2	8911	NG 12
Snow Plow, FRLN	MP,SD,DD	8907	NG 47
4.44 Rail Laying & Roadbed Maintenance Equipment			
Ballast Car	PP,SD,NG	8903	NG 71
D&RGW Rail & Tie Car Kbsh	PP,MP,DD,CD,G	8909	NG 69
Lever Car:SR	PA,SD,1/2	8901	MM 37
SR:Lever Car	PA,SD,1/2	8901	MM 37
4.45 Cranes & Pile Drivers			
Bucyrus Steam Shovel	CD,MP,HO	8901	NG 53
PRR:Steam Crane Coaling Dock	PA,PP,SD,HO	8907	RC 56
4.46 Other Work Cars			
AT&SF:MOW Car	Ltr,PP	8907	RC 14
Barnhart Log Loader, Pty	PP,SD	8909	NG 18
Dupont's Work Train	MP	8902	BL 23
RF&P Work Train	PP,MP	8906	MG 18
SP:Mw 8649:Kbsh	FULL CD,PP,MP,SD	8901	RC 75
Water Car:Lionel Tender Cvsn	O,CD,MP	8908	OR 17
Work Combine: Sonora&Camino	CD,MP,On3	8901	NG 68
Work Train, Logging	MP,HO	8903	NG 39
4.5 Running Gear of Rolling Stock			
Side Frames Frn C-Liner:Smoky Vly	PR,MP,HO	8904	MM 21
4.51 Wheels & Wheel Sets			
Disconnect Log Trucks:Sumpter Vly	PR,MP,O	8906	MM 22
Making Sn3 EBT Vulcan Trks	CD,DD,PP,Sn3	8910	SM 16
Precision Masters	DD,N	8902	BL 29
Pgr 41-BNO:Bob Rzasa	PR,HO	8906	MM 23
Roller Bearing 70 T:Bob Rzasa	PR,CD,HO	8908	MM 24
Truck Swapping	CD,MP,N	8911	NS 30
Trucks AAR:Pacific Ltd	PA,DD	8909	MM 7
Trucks:Precision Sc	PR,MP,HO	8905	MM 22
Wbl Cleaner Modification	CM,MP	8905	MR 134
Wheels (Products by Culp)	PR,MP,G	8907	NG 12
4.52 Gears, Gear Trains, Flywheels			
D&RGW Pgr Cars	PP,Jetters	8903	NG 78
Gears, Scbt	MP,DD,HO,On3	8911	NG 38
Loco Tune UP, Gear Interferences	DD,MP	8907	NG 27

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
4.53 Power Trucks			
Tuning up Athearn Diesel Mechanisms	MP,CM,HO	8912	RJ 8
4.54 Non-Power Trucks			
Making Sn3 EBT Vulcan T	CD,DD,PP,Sn3	8910	SM 16
4.55 Brakes & Braking Systems			
Hopper	CD	8905	MR 131
4.56 Bolsters & Underframes			
Detail Cast Parts (Ozark)	PR,MP,G	8911	NG 13
Trnpl Trks on Weaver Cf Hoppers	Full CD,CM,MP	8907	ON 53
4.57 Couplers			
Coupler Dtl:Relocate Weaver Act Pin	O,Full CD,DD,MP	8901	ON 23
Improvement	N,CM,CD	8905	MR 96
KD Cplr For Trolley Car Use	CM,CD	8908	OR 46
Kadee:Couplers	PR,G,MP	8910	RC 104
Mounting Kadee's on Plastic Kits	MP,FULL CD,HO	8907	RJ 23
4.7 Railcar Loads			
Blkhd Flat Ctr Beam:LDS W/Magnets	Full CD,MP,HO	8911	MM 30
Buildozers D8's:Overland Mdl	PR,MP,HO	8904	MM 22
Car Loads:Pipe:Beams:Wheels:Prt 2	CM,MP	8908	OR 27
Car Loads:Potatoes:Scrap:Hazmat:Prt1	CM,MP	8906	OR 31
Gon Containers:Westerfield	PR,MP,HO	8904	MM 22
Grader Load:NC&StL Flat	CD,CM,MP,DD,HO	8903	MM 38
Lbr LDS:N Sc of Nevada	PR,CD,N	8905	MM 22
Lbr Load:N Sc of Nevada	PR,MP,HO	8907	MM 25
More Rail Loads	PP	8910	BL 12
Plate Steel	CM,PP,MP	8912	BL 40
Pole Loads	FULL CD,PP,MP	8904	BL 16
Power Plant Parts	CM,MP	8902	BL 32
Pulpwood Gons:D&H	PA,PP,DD	8907	MM 44
Steel Coils:Walthers	PR,MP,HO	8904	MM 22
Tank Containers	CD,PP,MP	8907	BL 15
Tie Loads	CM,PP,MP	8903	BL 18
Traction Motors	CD,PP,MP	8909	BL 19
Txfmr:Well Cars CR:PC	PP	8902	MM 38
Txfmr:C&O Well Flat	PP,MP	8903	MM 66
Virnex Indust:Coil Car Loads	PR	8910	RC 109
Walthers:Coiled Steel Loads	PR,MP,HO	8908	RC 100
4.8 Non-Railroad Transportation Equipment			
Caterpillar Pty	PA,PP,MP	8909	NG 55
Caterpillar Tractors	MP,DD	8907	NG 57
4.91 Automobiles			
Autos (Kwikit)	PR,MP,HO	8911	NG 14
4.93 Trucks & Wagons			
40 Ft Van	CD,CM,PP,MP,HO	8907	MM 36
40' Trailer: 1956/63: 2	PP,PS	8905	MG 41
40' Trailer: 1965: 1	PP,PS	8903	MG 49
B&O TOFC Trailers	PP,SD,PA	8910	RJ 28
C&NW Piggyback Service	MP	8902	MM 1
C&NW Piggyback Service Pt 4	Full CD,MP,HO,PA,PP,DD	8901	MM
61			
C&NW Piggyback Service Pt 5	Full CD,MP,DD,HO	8902	MM 24
Fire Engines:San Francisco CA	PA,PP,MP,SD,HO	8906	MM 62
Kissel Trucks	PP,SD	8907	NG 38
Mack Truck (CHB)	PR,MP,O	8905	NG 13
Mack Truck (Jonan)	PR,MP,HO	8901	NG 14
Toy, Modf	CD,MP,HO	8910	MG 53
Vehicles	MP	8903	NG 54
4.95 Cranes & Other Lifting Devices			
Dock Hoists Scbt	DD,CM	8903	NG 52
4.96 Baggage Carts			
Caterpillar Tractor (Kwikit)	PR,MP,HO	8905	NG 14
SR:Whee Truck	PA,DD	8907	MM 69
Whee Truck:SR	PA,DD	8907	MM 69
4.97 Containers			
Containers:Westerfield	PR,MP,HO	8904	MM 22
LCL Containers	PA,PP,DD,MP	8904	MM 80
LCL Containers	PA,PP,DD	8905	MM 57
5) STRUCTURES			
5.9 Structure Construction Techniques			
A Two Story Stone Garage:Scbt	CD,MP,S	8904	SM 16
Computer Drwg	CM,MP,PP	8904	MR 90
Constructing Log Type Bldgs:Scbt	CD,CM,MP,Sn3	8904	SM 18
Forced Perspective	CM,CD,MP,LP	8901	MR 130
From Photos	CM	8902	MR 171
HO Bldg Cvsn to S Scale Use	PR,MP,CM,S	8904	SM 10
5.1 Track Support Structures			
Blkhd Straight Timber:SP	PA,DD	8909	MM 41
Bridges & Trestles:Easy Install	CM,MP	8911	RC 68
C&O:Brdg/Tunnel Inner Guardrail	PA,DD	8906	MM 71
C&O:Crossing Concrete Slab	PA,DD	8910	MM 38
Coal Dock:NP Pt 1	Full CD,MP,HO	8907	MM 30
Coal Dock:NP Pt 2	Full CD,MP,HO	8908	MM 36
Crossing Concrete Slab:C&O	PA,DD	8910	MM 38
Guardrail(Inner) Brdg/Tunnel:C&O	PA,DD	8906	MM 71
Iron Bridges	PA,PP,SD,DD	8906	RC 54
Micro Engr Deck Plate Girder	PR,MP,S,HO,N	8901	RC 104
NP:Coal Dock Pt 1	Full CD,MP,HO	8907	MM 30
NP:Coal Dock Pt 2	Full CD,MP,HO	8908	MM 36
Plate Girder Span Members:SP	PA,DD	8906	MM 55
Scherzer Rolling Lift Bridge	CD,MP,PP,O	8912	MG 58
SP:Plate Girder Span Members	PA,DD	8906	MM 55
SP:Straight Timber Blkhd	PA,DD	8909	MM 41
SP:Trestle & Bracing	PA,DD	8910	MM 80
Short Trestles	CM,DD,MP,PP	8908	OR 38
Small Pier	Full CD,DD,MP	8908	OR 29
Turntable		8910	MR 93
Turntable			MR 96

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
Turntable		8910 MR	98
Trestle & Bracing:SP	PA,DD	8910 MM	80
Wood Tunnel Portals and Doors	PA,PP,MP,FULL CD	8906 RJ	37
5.2 Wayside Structures & Signs (For Loading Ramps See 6.3)			
ATSF Yard Structures	INDEX	8910 MG	44
ATSF:10 T Stock Scale	PA,DD	8909 MM	82
ATSF:Automatic Gate Sgnl	PA,DD	8903 MM	60
ATSF:Crossing Sgnl	PA,DD	8904 MM	40
ATSF:Interlocking Twr Hobart CA	PA,PP,SD,HO	8909 MM	47
ATSF:Std Signs	PA,DD	8902 MM	61
ATSF:Std Signs Mile Board/Post	PA,SD	8901 MM	46
ATSF:Wigwag Sgnl	PA,SD,No.1	8905 MM	39
Automatic Gate Sgnl:ATSF	PA,DD	8903 MM	60
Billboards	FULL CD,SD,MP	8908 MR	100
Brass Sand Tower	HO,CM,CD,MP	8903 MR	102
Bents/Piers in Roadways:SP	PA,DD,PS	8904 MM	45
Bldg:C&O Box Car	PA,DD	8908 MM	67
Bridge Tender Cabin, West Side	SD	8905 NG	63
C&O:Box Car Bldg	PA,DD	8908 MM	67
C&O:Grds Lgt at Tool Hs	PA,SD,HO	8902 MM	33
C&O:Watchman's Shanty	PA,DD	8909 MM	31
CPR:Stn Bulletin Boards	PA,DD	8904 MM	53
Crossing Signal	CM,WD	8901 MR	20
Cattle Guard:SR	PA,SD,S	8903 MM	76
Crossing Sgnl:ATSF	PA,DD	8904 MM	40
GM&O Box Car Hs	PP,MP	8907 MG	53
Grds Lgt at Tool Hs:C&O	PA,SD,HO	8902 MM	33
IC:Interlocking Twr Alhambra IL	PA,PP,SD,HO	8906 MM	28
Instr Shed	CM,PP,SD	8903 MR	88
Interlocking Tower	HO,SD,L,P,PP	8904 MR	74
Interlocking Twr:IC Alhambra IL	PA,PP,SD,HO	8906 MM	28
Interlocking Twr:Sheepcot Sc Prod	PR,MP	8907 MM	24
Lineside Detailing	MP,PP	8906 MR	78
N&W:Dispatcher's Office	PP,CD,DD,SD,N	8902 RC	96
Outbuilds (Trains of Texas)	PR,MP,O	8905 NG	13
PRR Pipe Fencing:P Co	PR,MP,HO	8910 MM	25
PRR:Steam Crane Coaling Dock	PA,PP,SD,HO	8907 RC	56
RR Track Scale	CD,PP	8910 MG	52
Relay Box:SP	PA,DD	8908 MM	80
Rutland:Spdy Shed/Handcar Hs	PA,DD	8911 MM	76
Slide Detector Fence	HO,CM,SD,MP,PP	8904 MR	94
SP:Bents/Piers in Roadways	PA,DD,PS	8904 MM	45
SP:Relay Box	PA,DD	8908 MM	80
SP:Telephone Box	PA,DD	8905 MM	63
SP:Tie Storage	PA,DD	8907 MM	40
SR:Cattle Guard	PA,SD,S	8903 MM	76
Scale 10 T Stock:ATSF	PA,DD	8909 MM	82
Sgnl Bridge:Oregon Rail Supply	PR,MP,DD,HO	8903 MM	21
Shacks/Shanties:Thomas A. York	PR,MP,O	8902 MM	22
Spdy Shed/Handcar Hs:Rutland	PA,DD	8911 MM	76
Std Signs Mile Board/Post:ATSF	PA,SD	8901 MM	46
Std Signs:ATSF	PA,DD	8902 MM	61
Stn Bulletin Boards:CPR	PA,DD	8904 MM	53
Telephone Box:SP	PA,DD	8905 MM	63
Tie Storage:SP	PA,DD	8907 MM	40
Trackside Pts:Dtl West	PR,CD,HO	8901 MM	27
Twr Interlocking:ATSF UP Hobart CA	PA,PP,SD,HO	8909 MM	47
UP:Interlocking Twr Hobart CA	PA,PP,SD,HO	8909 MM	47
USRA Storage Box	PP	8901 MM	57
Water Tank Hoops	CD,PP	8907 MR	136
Watchman's Shanty:C&O	PA,DD	8909 MM	31
Wigwag Sgnl:ATSF	PA,SD,No.1	8905 MM	39
5.3 Freight Houses			
Kitbashing from Grusome Casket Co	MP,FULL CD,HO,N	8907 RJ	16
NYO & W	HO,SD	8908 MR	93
Rexburg ID:UP	PA,PP,MP	8902 MM	30
SR Kinston NC:C.C.Crow	PR,MP,HO	8911 MM	25
UP:Rexburg ID	PA,PP,MP	8902 MM	30
5.4 Locomotive Servicing Facilities			
(Bldg&Structure) Ash Pit	PR,MP,S	8905 NG	15
Argent Lumber Company:Water Tank	DD,PP,PM	8904 SM	34
C&S:Rdnhs/Turntable Denver Co	PA,PP,MP,SD,HO	8902 MM	48
Coal Loading Fac	PP,CM,CD	8910 MR	75
Cinder Conveyor:Overland Mdis	PR,MP	8904 MM	20
Coal Bin	CD,MP,SD,DD,On3	8901 NG	62
Coal Dock:NP	MP	8907 MM	1
Coal Twr 150 T:Sheepcot Sc Prod	PR,MP,HO	8911 MM	24
Coaling Twr:Pola	PR,MP,LGB	8902 MM	23
Engine Hs:UP Kansas City	PP	8907 MM	74
Engine Terminal:NOPB	PA,PP,DD	8910 MM	54
Gallows Turntable, Scbt	MP,PP,SD,CD,NG	8911 NG	72
Heljan:Enginehouse	MP,PR,HO	8911 SG	9
M&NJ: Enginehouse Scbt	CD,SD,N	8910 RC	60
N&W:Oil Stge Tank	PA,PP	8911 MM	77
NOPB:Engine Terminal	PA,PP,DD	8910 MM	54
NP:Coal Dock	MP	8907 MM	1
Oil Stge Tank:N&W	PA,PP	8911 MM	77
RGS Water Tank(Durango Press)	PR,MP,HO	8911 NG	14
Roundhouse	N,FULL CD,MP,PP	8911 MR	102
Rico Engin Hs,Scbt	MP,CD,S	8909 NG	46
Rdnhs:C&S Denver Co	PA,PP,MP,SD,HO	8902 MM	48
Sand House at Sargent, Co	PP,SD,PA,CD	8908 RJ	28
Sanding Facility	Z,CM,CD,SD,MP	8904 MR	76
Sargent, Co D&RGW Water Tank	PP,PA,SD	8912 RJ	53
SP:Turntable	PA,PP	8903 RC	46
SRR:Turntable	PA,PP,SD,HO	8903 RC	61
San Luis Obispo Roundhouse	MP,Nn3	8911 NS	22
Sanding Twr:IHC	PR,CD,HO	8910 MM	25

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
Small NG Coal House	PR,MP,S	8904 SM	8
Turntable	HO,SD	8910 MR	93
Turntable	PP	8910 MR	96
Turntable	N,FULL CD,MP,PP	8910 MR	98
Track & Insp Pits:Kbsh: Pt 3	Full CD, MP,DD,O	8907 ON	43
Turntable:C&S Denver Co	PA,PP,MP,SD,HO	8902 MM	48
Two Story Bldg Flat:Kbsh:Pt 1	Full CD, MP,DD,O	8901 ON	37
Two Story Bldg Flat:Kbsh:Pt 2	Full CD, MP,DD,O	8904 ON	38
UP Kansas City:Engine Hs	PP	8907 MM	74
Water Pane	PP	8910 MR	138
Water Tank Details:UC&N	CD,MP,PM,DD	8901 NG	42
Water Tank, Brass (PSC)	PR,MP,O	8905 NG	13
Water Tanks	PP,MP,DD	8911 RC	88
Water Cranes:Overland Mdis	PR,MP	8904 MM	20
Water Tanks, St.Clair Nor	PP,SD,CD,MP	8903 NG	27
5.5 Stations			
1+1=3; Stn Kbsh	CM,MP,HO	8908 BL	18
ATSF Stations/Depots	INDEX	8910 MG	44
ATSF:Pico Rivera CA	PA,PP,SD,HO	8906 MM	72
C&O:Pikeville KY Depot	PA,PP,DD,SD	8910 MM	76
Comb Std:SP#22	Full CD,MP,DD,HO	8908 MM	46
Combination Stn:NS Madison Ga	PA,PP	8911 MM	40
Cumbres Stn	SD	8905 NG	70
DL&W:Station	CM,MP,HO	8904 RC	67
Depot:C&O Pikeville KY	PA,PP,DD,SD	8910 MM	76
Erie:Waldwick NJ	PA,PP,SD,HO	8909 MM	52
Farmers Valley, PA on Shawmut RR	PP,SD,PA	8909 RJ	8
Farmington Depot Kbsh	CM,MP	8908 RC	58
Laramie, Hahn's Peak & P	CD,DD,MP,PP,PM	8910 MG	40
Leadville	PP	8905 MR	80
Leadville	HO,SD	8905 MR	82
Laurel Depot: Scbt	SD,MP,CD,S	8901 NG	18
M&NJ's Middle Town Depot	PP,SD,HO	8911 RC	39
M&NJ:Slate Hill	PP,CD,SD,N	8909 RC	81
NS Madison Ga:Combination Stn	PA,PP	8911 MM	40
NYC W Shore	PP,PM,SD,HO	8906 MG	22
Olympia: WN New Stn	PA,DD	8908 BL	16
Overburg Station	PA,PP,SD,N	8902 RC	62
Pico Rivera CA:ATSF	PA,PP,SD,HO	8906 MM	72
RGS Lizard Head Station:Scbt	CD,MP,SD,PP,Sn3	8904 SM	18
Rt:Depot Inman Kansas:Mdl:	PP,CD,SD,MP,N	8907 RC	79
Revel Stn Kit:Modf	CD,CM,PP,MP,HO	8904 MM	48
Rexburg ID:UP	PA,PP,SD,HO	8901 MM	51
Sargents, Colo on DRG&W	PA,PP,DD,CD	8906 RJ	43
Soo:Depot Mellen Wisconsin	PA,PP,DD,HO	8904 RC	61
Soo:Depot:Mellen	CD,MP,HO	8905 RC	72
SP:Comb Std #22	Full CD,MP,DD,HO	8908 MM	46
Sargent Stn	SD,DD	8909 NG	44
Tenn. Pass Depot (Bldrs in Sc)	PR,MP,HO	8905 NG	15
Tennessee Pass:Bldrs in Scale	PR,MP,HO	8904 MM	23
UP:Rexburg ID	PA,PP,SD,HO	8901 MM	51
Waldwick NJ:Erie	PA,PP,SD,HO	8909 MM	52
5.6 Residential, Rural, Religious Buildings			
Bella Union Theater	CD,DD,HO	8911 MG	32
Brown Victorian	FULL CD,MP,HO	8908 MG	19
Barn:Lowe	PP,SD,N	8903 RC	72
Cut-Outs: 1	DD	8911 BL	15
Duplex: Kbsh	FULL CD,MP,DD,HO	8912 MG	27
Easy Awnings: 1	FULL CD,DD	8911 MG	28
Easy Awnings: 2	FULL CD,MP,DD,HO	8912 MG	16
Frontier Cabin	CD,MP,HO	8911 MG	58
Green Victorian	FULL CD,MP,HO	8908 MG	19
Penn Ave:City Classics	PR,CD,HO	8906 MM	23
Red/Gray Victorian	CD,SD,PP,MP,HO	8910 MG	21
Rural	CM,CD,MP,L,P	8903 MR	64
Tenements	FULL CD,MP,SD	8902 MR	76
Vacation Home:Life-Like	PR,HO	8901 MM	27
5.7 Commercial & Public Buildings			
(Ark.Viscalcmdis)Meivicksocialhouse	PR,MP,HO	8901 NG	12
(Bldg&Structure) Welding Shop	PR,MP,S	8905 NG	15
(Tom's RR Corner) Welding Shop	PR,MP,HO	8911 NG	13
A Two Story Stone Garage:Scbt	CD,MP,S	8904 SM	16
American Agar Building	CM,MP,DD,N	8911 NS	36
Babershop:House:Bodie	Full CD,MP,SD,HO	8901 RC	84
Bandshell	PP,DD,N	8906 RC	78
Bldgs, Westrn Pty (Pola)	PR,MP,G	8907 NG	15
Boiler Hs, Scbt	MP,PP,CD,SD,HO	8911 NG	18
Buildings:Germantown, Md	PP,MP,N	8909 NS	55
Chalfont Fire Hs 1	DD	8908 BL	13
Chalfont Fire Hs 2	DD	8907 BL	39
Chalfont Fire Hs 3	DD	8908 BL	39
Chalfont Fire Hs 4	DD	8909 BL	24
City	CM,CD,MP,L,P	8903 MR	64
Design Preservation:Ind Structures	PR,CD,HO	8909 MM	24
Dsgnpremdis:Various	MP,PR,HO,S	8903 SG	12
Eagle Rock, Va Stores	PP,Article	8909 RC	47
Eagle Rock, Va	PP,Editorial	8909 RC	109
Grant St Iron-Front:City Classics	PR,CD,HO	8905 MM	23
Grocery Store (Ark.Vhy)	MP,PR,O	8909 NG	16
Hotel:RR Ave Mdlwks	PR,MP,HO	8905 MM	22
Ind Structures:Design Preservation	PR,CD,HO	8909 MM	24
Magnus Root Beer Stand	PP,MP,CD,SD,HO,N	8912 RC	85
Market(Arkviscmdis)	PR,MP,O	8911 NG	13
Micro Engr:False Front Bldg	PR,MP,HO	8904 RC	98
Quonset Hut(Sublime Design)	PR,MP,HO	8903 NG	12
Small Stores	PP,SD	8907 NG	61
Store Interiors from Color Slides	CM,CD,MP,N	8904 RC	65
Store:Mining Machinery	PP,MP,SD,CM,HO	8908 RC	87

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
The Empire Feed & Supply:Scbt	CM,MP,S	8910 SM	24
Tina's Tart Shop:A W Entp	PR,MP,HO	8911 MM	24
Union Hotel:Scbt	MP,CD,SD,HO	8905 NG	64
Walker Bldg:Dpm	PR,MP,HO	8904 MM	22
5.5 Industrial Structures			
Factory:Kbsh	MP,CM,N	8912 RC	102
Floyd Simms:Brick Kilns	PR,MP,HO	8904 RC	100
PP&L Shamokin Dam Plant	PA,PP	8902 RC	90
Power Plant:Dumper:Mdl	PA,PP	8902 RC	90
Track & Insp Pits:Kbsh: Pt 3	Full CD, MP,DD,O	8907 ON	43
Two Story Bldg Flat:Kbsh:Pt 1	Full CD, MP,DD,O	8901 ON	37
Two Story Bldg Flat:Kbsh:Pt 2	Full CD, MP,DD,O	8904 ON	38
Warehouse:Mdl	CD,MP,HO	8903 RC	69
5.51 Sawmills, Lumber Mills			
Cast Boiler (Trains of Texas)	PR,MP,O	8911 NG	14
Logging Equipment(Hudson Carriage)	PR,MP,O	8905 NG	12
Logging High Wheels	SD,DD,MP	8901 NG	71
Sawmill (Five Peaks)	PR,MP,HO	8907 NG	13
5.52 Mining Structures			
(Sceneryunit)Leaverite Mine	PR,MP,O	8901 NG	13
Argo Tunnel Ore Chutes on the C&S	CD,DD,MP,Sn3	8910 SM	22
Coal Industry, WV Tipples	PP,SD,HO,N	8911 RJ	22
Coal Tipples on Western Allegheny	PA,PP	8906 RJ	30
Coeur D'Alene Mine	CD,PR,MP,PP,HO	8912 MG	46
Great Divide Mine Co:Frinc:Pt2	DD,CM	8911 SG	43
Leaverite Mine (Caboose Hobbies)	PR,MP,HO	8905 NG	15
Matchless	MP,PP	8907 MR	98
Matchless	HO,SD	8907 MR	100
Modeling West Virginia Coal Tipples	MP,CM,HO	8911 RJ	18
Modern Mine	N,SD	8906 MR	96
Monero Coaling Stn	SD,DD	8907 NG	44
Ohio Coal Mines	MP,PP	8905 MG	11
Ore Flow	CD	8907 MR	91
Ore Chute Details: UC&N	CD,MP,PM,DD	8901 NG	42
Ore Chutes, Argo Tunnel, Scbt	CD,MP,Sn3	8905 NG	54
Pozo Shalthouse (Link & Pin)	PR,MP,HO	8907 NG	13
5.53 Mills, Smelters			
Addison Steel Co.	CD,MP,N	8903 BL	37
Argo Tunnel Ore Chutes on the C&S	CD,DD,MP,Sn3	8910 SM	22
Flour Mill:Minden NV Pt 4	Full CD, MP	8901 MM	70
Minden NV:Flour Mill Pt 4	Full CD, MP	8901 MM	70
Ore Flow	CD	8907 MR	91
Silver Mill: RGS	SD,PP,N	8902 MG	38
Whitefish Stamp Mill, Scbt	MP,CD	8907 NG	36
5.54 Refineries, Oil Wells			
Oil Well Pump (Boomtown Mdis)	PR,MP	8905 NG	12
Stge Tank Vert:Pecos Riv Brass	PR,MP,N	8907 MM	25
Walking Beam Pump:Boomtown Mdis	PR,MP,HO,N,S,O	8905 MM	22
5.55 Factories			
Factory:Multistory:Kbsh	CD,MP,HO	8907 RC	72
Generic Ind Bldg	HO,CM,CD,MP	8909 MR	65
Harder Refrigerator:Cobleskill NY	PA,PP,PM	8905 MM	33
Loading Cars at Sand Plants	PP,PA	8908 RJ	26
Modeling Ottawa Silica Sand	PP,L,P,PA,CM	8908 RJ	28
Ottawa Silica Sand	PP,PA,PM	8908 RJ	23
Warehouse Kbsh	HO,FULL CD,MP	8904 MR	80
5.56 Water Terminals, Wharves			
Port of Albany NY	PA,PP,DD	8902 MM	68
Pullman Std:Loading For Export	PA,PP	8910 MM	70
Small Pier	Full CD,DD,MP	8908 OR	29
5.57 Transfer Facilities			
Bulk Unloader Scbt	MP,DD,CD,HO	8905 NG	32
Coal Docks	CD,PP,MP	8901 MG	7
Coal Triple: B&O	CD,PP,MP,DD,HO	8904 MG	24
CSX:SeaLand Container Ship-To-Rail	PA,PP	8908 MM	56
CSX:SeaLand Containers Ship-To-Rail	PA,PP	8907 MM	58
Hopper Unloading Facility	PP,SD,CD,HO	8905 RC	58
Milkshead	CM,MP,HO	8909 MG	48
Milt's Motor Oil	CD,MP,HO	8906 BL	35
Minden Milling	PR,MP,HO	8903 NG	13
Ore Boats	Letter	8902 RC	7
Pullman Std:Loading For Export	PA,PP	8910 MM	70
Pulpwood Ldng:D&H	PA,PP,DD	8907 MM	44
Tractor Unloader	PA,PP	8907 RC	48
Conveyor Pit	CD,MP,HO,PP	8910 RC	72
5.58 Other Industrial Structures			
Brickyards & Kilns	PA,PP,MP	8906 MG	28
Basic S Scale Stone Bldg	PR,MP,S	8904 SM	9
Blacksmith Shop:Cibola Crossing	PR,MP,S	8904 SM	22
D&H Milford NY:Weatherly Cheese	PA,PP,PM	8904 MM	66
High Power Tower	CM,SD,HO	8911 BL	12
Ibex Tipple	N,SD	8907 MR	96
Imported Special:Brick Yard Kilns	MP,PR,HO	8902 RC	102
Quonset Huts:Sublime Design	PR,CD,HO	8901 MM	26
Silica Brick Plant	PA,PP,PM	8906 RJ	27
Small Facilities Handling Tank Cars	PP,PA	8911 RJ	52
Tipple	CM,MP,PP	8907 MR	94
Tipple	N,SD	8907 MR	96
Turner Creamery	PP,SD,N	8905 MG	30
Wagner Mill Schuyler NE:UP X8444	PP	8905 MM	1
Weatherly Cheese:Milford NY D&H	PA,PP,PM	8904 MM	66
5.9 Interiors for Buildings			
Furniture Dtl	DD	8903 BL	17
6) SCENERY			
6.1 Scenery Construction Techniques			
Cables (Vintage Repro)	PR,MP	8901 NG	14
Campfire (Grs Mdis)	PR,MP	8903 NG	14

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
Cast Horses (Hudson Carriage)	MP,PR,O	8909 NG	15
Cast Parts (Bill Roy)	MP,PR,O	8909 NG	12
Designer Tree Co Trees	MP,PR,HO	8907 RJ	36
Forced Perspective	CM,CD,MP,L,P	8901 MR	130
Hardshell Techniques	CM,MP	8907 NS	32
Mini Scenes Add Life	MP,N	8909 NS	14
Mirrors & Illusions	Letter,CM	8901 RC	8
Paste Scenery	FULL CD,MP	8904 BL	35
Plaster Cast Parts (Morse)	MP,PR,HO	8909 NG	14
Snow, Part #25:Builders in Scale	PR	8910 SM	8
Styrofoam-Hydrocal-Dry Temptra	CM,MP	8909 NS	32
Timber Prod Fiber Mesh	PR	8902 MG	18
Texturize With Rock, Dirt & Dust	CM,MP	8904 SM	15
Urban	CM,CD,L,P,MP	8907 MR	102
6.1 Backdrops			
Backdrops	INDEX	8909 MG	64
6.2 Mountain Scenery			
Closed Tunnel	CM,MP,PP	8909 MG	39
Foam Base For Paste	FULL CD,DD,MP	8908 BL	24
Mountains	MP,CD,L,P	8907 MR	88
Rock Casting: C&RM RR	FULL CD,MP	8909 BL	13
Stalline Tunnel	HO,FULL CD,MP	8909 MR	84
Snow Scene:Bldg	CM,MP	8912 RC	80
6.3 Commercial & Industrial Scenery			
Billboards	Full CD,MP,HO	8908 MM	26
Blkhd End Unldng Spur:SP	PA,DD	8911 MM	53
Loading Dock:Roberts ID	Full CD,PP,MP,SD	8906 MM	56
Loading Ramp	MP	8906 MM	1
Ore Load Ramp	PP	8906 MR	102
Ore Load Ramp	SD	8906 MR	103
SP:Blkhd End Unldng Spur	PA,DD	8911 MM	53
6.4 Water Scenes			
Pond	CM	8906 MR	30
Water	CM,MP	8901 MR	114
Water Modeling	INDEX	8909 MG	64
6.5 Roads			
Crossing Concrete Slab:C&O	PA,DD	8910 MM	38
Roads	CM	8907 MR	118
6.7 Plants and Landscapes			
Cattails	CM,MP	8911 MR	126
Fiber Mesh Weeds	FULL CD,MP	8902 MG	18
Improved Lichen Bushes	MP,CD	8905 RC	69
Pine Trees	PR,MP	8911 MR	93
Pine Trees	PR,MP	8904 ON	17
Trees, Sagebrush	PR,FULL CD	8908 RJ	10
Timber Products:Weeds&Foliage	PR,MP	8910 RC	106
Trees With Mother Nature:Mdl	MP,CD	8906 RC	58
Western Foliage	CM,MP	8906 MR	76
6.8 People & Animals			
(Se Ltd)Figures	PR,MP,O	8901 NG	12
Figures (RR Ave Mdis)	PR,MP,O	8903 NG	14
Figures Fm Wire & Putty	Full CD,MP,DD	8910 OR	42
O Scale	REVIEW,MP	8909 MR	52
Turning Head Engineer		8911 MR	123
6.9 Finishing Touches			
Billboards	FULL CD,SD,MP	8908 MR	100
Crossing Signal	CM,WD	8901 MR	20
Forced Perspective	CM,CD,MP,L,P	8901 MR	130
Junk	CM,MP	8907 MR	76
Lineside Detailing	MP,PP	8906 MR	78
Mini Projects	CM,MP	8901 MR	90
Making Waves	CM,MP	8908 RC	48
Paste Scenery	CM,FM,MP	8910 BL	40
Pine Trees	CM,MP	8911 MR	93
PRR Pipe Fencing:P Co	PR,MP,HO	8910 MM	25
Power Line Cstn	DD,PP	8911 NG	35
Streetslights	HO,CM,CD,MP	8903 MR	106
Signs on Bldgs	FM,MP	8901 NG	66
Snow Scene:Bldg	CM,MP	8912 RC	80
Turning Head Engineer	CM,CD,WD,MP	8911 MR	123
Water	CM,MP	8901 MR	114
Western Foliage	CM,MP	8906 MR	76
7) ELECTRICAL ANIMATION			
7.1 Basic Electrical Engineering			
Basic Animation Device	CD,DD,N	8911 NS	20
7.2 Motors			
Ball Bearing	PR,MP	8908 MR	46
Loco Tune UP, Electrical	DD,MP	8909 NG	58
7.3 Troubleshooting Electronic Circuits			
Loco Tune UP, Electrical	DD,MP	8911 NG	58
7.1 Layout Wiring Techniques			
Connecting Meters	CD	8907 MR	137
Overhead Wiring	CM,CD,MP,L,P	8902 MR	82
Panel Wiring	CM,WD	8911 MR	134
Power Switch Control	WD	8905 MR	93
Trigger Rectifier	WD	8905 MR	93
7.11 Basic Wiring			
Rail Feeders		8903 BL	35
Reverse Loop	CD,CM	8911 MR	176
Wire Selection and Splicing	CD	8907 NS	58
Wiring Methods	CD,WD	8909 NS	46
7.13 Wiring for Special Trackwork			
Dual Gauge Turnouts	CD	8909 MR	128
Gauntlet Protection	FULL CD,WD	8907 BL	21
Motor-Driven Machines	Full CD,WD,MP	8903 RC	83
Switch Machine Control	WD	8905 MR	92
Switch Machines	Letter,WD	8906 RC	8

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
7.14 Wiring for Turntables & Transfer Tables			
Hidden Turntable	HO,WD	8905 MR	136
7.15 Detection Circuits			
Block Polarity	WD	8908 MR	90
Parkdale Products	EDITORIAL,MP	8904 BL	34
Rev Pole	CM,WD	8902 MR	150
Searchlight Rev Polarity	WD	8908 MR	90
7.16 Cab Control Circuits			
With Rotary Switches	WD	8906 MR	127
7.17 Control Panels			
Dispatcher Panel; GGN	CD,DD,MP	8906 BL	14
7.18 Signal Control Circuits			
Crossing Signal	CM,WD	8901 MR	20
Tomar:Dwarf Signal	PR,S	8903 SG	13
7.19 Computer/Layout Interfacing			
BC Services - Software	PR	8903 MR	94
Correction		8912 MR	137
Fiding SR Check Digits	CM	8909 MR	97
Operation Analyzer	CM,LP	8903 MR	90
Photo Scale Converter	CM,MP	8909 MR	96
Soft-Kat - Software	PR,MP	8909 MR	98
Software Listing		8912 MR	136
Spreadsheets	CM	8903 MR	90
Throttle & Resistors	CM	8906 MR	106
7.2 Throttles			
7.21 Momentum Control Throttles			
Starr Ent:Walk Around Throttles	PR,MP	8907 ON	17
7.27 Power Supplies			
Basic		8903 MR	124
Lehmann Patentwerk/Walthers - Trans & Cont	PR,LGE SCALE	8910 MR	60
MRC Walk Around Throttle Evaluation	MP,PR	8912 RJ	12
Model Rectifier Corp:Power Pack	PR,MP	8911 RC	114
7.29 Power Supply Protection			
Meters	PR,MP	8906 MR	54
7.3 Command Control Throttle			
Anti Jerk Circuit	WD	8904 MR	138
Walk Around Control:Starr Entp	PR,PP	8902 MM	21
7.31 Carrier Command Control Throttles			
Hornby Zero 1	BR	8901 NG	89
7.32 Radio Command Control Throttles			
(Tempestelectronics) RC Throttle	PR,G	8901 NG	13
Wireless Walkaround	FULL CD,WD,MP	8908 MR	67
7.4 Sound Systems			
AF Speakers:Replacing	MP	8903 SG	44
AF Speakers:Replacing	Article	8905 SG	35
Roanoke Electronics:Digital Records	PR,MP	8912 RC	122
Steam Whistle	CM,WD,MP	8907 MR	64
Transponder	PR,PP	8906 MM	22
7.41 Sound Systems; Engine Activated			
Cheap Chug Lives!	CD,WD	8902 BL	16
Diesel Horn	FULL CD,WD	8907 BL	33
Not So Cheap Chug	CD,WD	8904 BL	19
Sound Modules(Power Systems Inc)	PR,MP	8907 NG	14
7.42 Sound Systems; Throttle Controlled			
Sound System(Starrtec)	MP,PR	8909 NG	14
	PR,MP,O,G	8903 NG	13
7.5 Lighting			
Christmas Tree Lights	Letter	8905 RC	8
Class Lights:Markers:Switch Lamps	Ltr,PA	8906 OR	49
G-R-S Mdl Brass:Fire Simulator	PR,MP	8912 RC	107
Getting Started	CM,CD	8908 MR	130
7.61 Lighting Rolling Stock			
Grs:Street Lamps	PR	8903 SG	12
Lighting Diesels	FULL CD,MP,WD	8912 MR	124
Sealed Beam Headlights	FULL CD,DD,MP	8902 BL	21
7.62 Lighting Models			
Grs:Super Flammaker	PR,MP	8907 NG	13
7.63 Model Lights			
Lionel Rotary Beacons:Dr. Tinker	Article	8902 OR	44
Streetlights	HO,CM,CD,MP	8903 MR	106
Traffic Lights	CM,WD	8908 MR	91
7.65 Lighting for Layouts			
Suggestions	CM	8912 MR	193
7.7 Signals for Control Circuits See 7.18			
Three Lite	N,PR,MP	8907 MR	48
7.71 Train Control Signals			
Revolving Signal	CD,MP,DD,HO	8901 NG	52
Wigwag Signal	CD,MP,DD,WD,N	8907 NS	20
7.72 Crossing Control Signals			
Bell & Flasher Control	PR,MP	8908 MR	51
Crossing Gate:Roanoke Eltn	PR,PP	8905 MM	23
Working Crossing Gate	N,FULL CD,WD,MP	8907 MR	79
8) OPERATION			
8.2 Operating Ideas			
Carloading in the Pulpwood Industry	PP,PA	8910 RJ	16
Filling Car Orders from Industries	PP,PA	8907 RJ	30
Handling Freight at Freight Houses	PP,PA	8909 RJ	32
Handling Rejected Cars at Shippers	PP,PA	8909 RJ	30
Handling Sand at Engine Facilities	PP,PA	8908 RJ	28
Loading Cars at Sand Plants	PP,PA	8908 RJ	26
Movements at Freight Houses	PP,PA	8907 RJ	26
Module Track Opns:Ntrak	CM,DD,N	8911 NS	34
Power Control Center	CM,MP,PP	8909 MR	100
Tank Car Unloading Facilities	PP,PA	8911 RJ	52
Team Track,Intermodal Yard Staging	PP,LP,PA	8910 RJ	38
Waybill Systems:Opns:Pt 1	Article	8907 ON	36

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
8.5 Computer Assisted Dispatching			
PC Scheduling	PROGRAM	8909 BL	34
Waybill Operation	FULL CD	8911 MR	114
8.9 Switching Problems			
Coal Canon		8912 MR	161
9) TOY/MODEL TRAIN SUPPLIES AND PUBLICATIONS			
9.9 Toy/Model Train History & Development			
1939 NY World Fair:Surviving Models	Discussion,MP	8910 OR	24
1939 World's Fair Layout	MP,O	8908 RC	106
1939 Worldfair Layout	MP,LP,O	8907 RC	102
Fm H20-44:Early O Scale Models	Article	8904 OR	14
Good Old Days	MP,Article	8901 RC	118
HO Tinplate Controversy	Article	8904 RC	104
HO Tinplate Controversy	Letter	8906 RC	10
John Munson	Article,DD	8904 RC	6
Lionel & Disney:1977-81:History	List,MP	8912 OR	55
Lionel GG1's:History:1947-81	MP	8910 OR	50
Lionel-Fundim:Steam Pgr Sets:77-81	MP,Discussion,O	8908 OR	55
Lobaugh Standards:1950-1958	Article	8903 RC	106
Ptyp Mdl Wih List	PP,MP	8901 MG	28
Postwar Locomotives 1950-54	S,Article	8902 RC	110
Third Rail	PA,Editorial	8906 RC	6
Varnish-Early Kits	Article	8912 RC	6
Vulcan 0-4-2	Ltr	8908 RC	15
Vulcan 0-4-2T	Article,MP,O	8905 RC	104
Vulcan 0-42	Ltr	8908 RC	15
World's Fair 1939:Trains	Editorial	8903 RC	6
9.01 History of Individual Manufacturers			
American Hornby	Article,O	8909 RC	104
Canadianized Hornby	Article,O	8910 RC	112
Continental Flyer	MP,S	8911 SG	24
Hobby Surplus Sales	Article	8903 SG	22
Kader Industrial	PP	8910 MR	104
Kughn,RP:Lionel Chrmn:Interview	Article	8903 SG	27
LGB Catalog	BR	8905 NG	90
Lionel's 10 Yrs of AF	MP,Article	8903 SG	24
Railmaster Mdl's/Railmaster Exports	Article	8910 SM	22
Scale-Craft History:Pgrr Cars:Pt 3	Article,MP	8907 ON	12
Scale-Craft:History:Pt 2	Article,MP	8901 ON	15
Strombeck-Becker Trains	Article,MP	8911 RC	120
9.02 Catalogs & Checklists of a Manufacturer			
Greenbergs Guide to Amflyer Wide Ga	BR	8910 RC	113
Walthers':O&S Sc Update	BR	8903 SG	51
9.03 Original Boxes for Toys/Models			
Lehigh and New England Railroad	BR	8907 RC	41
9.1 Trains, Tracks, Structures			
Ertl U K Ltd/Canadian Fine Scale - Shining		8906 MR	138
Lionel's Video Camera	Editorial	8901 RC	7
Lionel:Railscope	PR,O,HO	8904 OR	17
9.10 NTR Train Sets			
Bachmann Industries Inc - Train Set	G,MP	8901 MR	51
LGB:Circus Train	PR,MP,G	8912 RC	110
Lionel:AF:UP Streamliner	MP,PR,S	8911 SG	27
Lionel:Wabash Frt Set	PR,DD,S	8903 SG	45
Marklin - Train-Ing	HO,MP	8902 MR	132
Robins Springs:Train Set	MP,PR,G	8909 NG	13
9.11 NTR Train Cars			
Ajin Models/Overland Models - Bay Window	HO,MP,PP	8911 MR	56
Bethlehem Car Wks:Reading Baggage	PA,MP,PR,HO	8910 RC	96
Bethlehem Car Wks:Reading Combine	PA,MP,PR,HO	8910 RC	96
Bev-Bel Corp-Covered Hopper	HO,MP	8910 MR	46
Con Cor - Modern Caboose	M,MP	8908 MR	40
Cbse Ext Vision BN:Con-Cor	PR,MP,N	8906 MM	23
Concor:Extended Vision Caboose	PR,MP,N	8912 RC	114
E & P Associates - Depressed Center Flat	HO,MP,PP	8906 MR	50
Erie Ltd/Sunset Models Inc-Caboose	HO,MP,PP	8907 MR	48
Hallmark Models - Hi Level Coach	HP,MP,PP	8903 MR	44
Hogart Hobbies:Binney Trk Safety Car	MP,PR,S	8905 SG	6
Kadee-Bulkhead Flat	N,MP	8907 MR	50
LGB:D&RGW Caboose/Combine	PR,MP,G	8907 RC	100
Life-Like:GB&W Thrall Box	PR,MP,HO	8908 MM	24
MDC:RGS Caboose	MP,PR,G	8909 NG	15
Mdl Die Casting:Circus Cars	PR,MP,G	8908 RC	102
Oriental Ltd - Hot Metal Car	HO,MP	8907 MR	50
Oriental Ltd-Hot Metal Car	HO,MP	8910 MR	42
Prs:50'	MP,PR,S	8911 SG	11
Pacific Ltd:SP B50-14 Sgl Sheath Bx	PR,MP,O	8906 MM	22
Polk's Hby: Passenger Car	PR,MP,1:29	8911 RC	102
Precision Sc:Mill Gon	PR,MP,O	8903 MM	22
Precision Scale:WP&Y Caboose	PR,MP,HO,3	8912 RC	103
Railway Expr Agency Inc - Caboose	#1,MP	8901 MR	47
Railway Express Agency/Polks - VGA Pass Coach	GN,MP	8910 MR	
43			
Railwork - PA RR Business	HO,MP	8908 MR	36
Rex S Gauge Models:42"	MP,PR,S	8911 SG	11
Scenery Unlimited:ATSF Caboose	MP,PR,S	8911 SG	10
The P Company-PA Diner	HO,MP	8905 MR	36
9.12 Track & Switches			
Jason's Brass Poles	PR,S	8903 SG	51
Jason's Brass Poles:Trolley Poles	PR,MP,S	8905 SG	8
Mainline Mdl's:Vinyl Roadbed	PR,N,HO,S,O	8907 MM	25
Pritchard Patent Product Co Ltd - Turnouts	HO,MP	8906 MR	41
Stabilant 22A	PR,EDITORIAL	8910 BL	39
Shinohara:#8 Turnout	PR,S	8905 SG	7
9.13 Train Car Kits			
A-Line:Thrall Double Stack	PR,PP,HO	8903 RC	102
Atlas/Roco Gon	MP,O	8904 MG	9

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
American Mdl Bldrs:Logging Kits	PR,MP,1/2	8907 NG	13
Andy W. Sc Mdl:Trs Rd 36 Ft Reefer	PR,MP,O	8901 MM	26
Bev-Bel's AAR 40' Box Car	MP,HO	8908 MG	26
Beaver Creek:Sumpter Valley Caboose	PR,MP,On3	8903 NG	12
Beaver Creek:V&T Caboose	PR,MP,HO	8903 NG	12
Beaver Creek:West Side Log Trucks	PR,MP,O	8905 NG	15
C&BT 40 Ft Box Cars	PR,MP,CD	8909 RJ	22
C&BT Shop - 40 Ft Box	HO,CM	8908 MR	48
C&BT Shops:1944 AAR Boxcars	PR,MP,HO	8909 RC	90
C&S Connection:C&S Box Car	PR,MP	8905 NG	14
CB&T Car Shops:EBT Hopper	PR,MP,On3	8904 RC	93
Con Cor - Covered Hopper	HO,CM,MP	8909 MR	48
Con-Cor 60 Ft Auto Parts Boxcars	MP,FULL CD,PR,HO	8908 RJ	33
Con-Cor Gon	MP,HO	8904 MG	5
Con-Cor Pa-1 Box Car	MP,HO	8910 MG	48
Cooper & Oshtemo Loco Works - Frt Cars	HO,MP	8904 MR	46
Chicago Express:EBT Hoppers,Multi Sc	MP,PR,HO,S,O,NG	8909 NG	16
Con-Cor:Greenville 60' Auto Pts Box	PR,MP,HO	8910 MM	25
Con-Cor:PS2 Cox Hop	PR,CD,HO	8908 MM	24
Detail Assoc - GS Gondola	HO,MP	8907 MR	35
Decker's:Flatcar, 4 Whl	PR,MP,1.5	8911 NG	13
Depot G:F&CC Cars	MP,PR,G	8909 NG	12
Depot G:WP&Y Boxcar	PR,MP,G	8907 NG	13
Dtls West:B&M 50 Ft Box	PR,CD,HO	8905 MM	23
Eastern Car Works - Covered Hopper	HO,MP,CM	8910 MR	58
Eastern Car Works Cov Hopper	CD,MP,HO	8912 MG	64
Eastern Car Wks:GATX Hoppers	PA,MP,HO,PR	8910 RC	100
End Cab Mdl:GM&O Ath Cstm 50' Box	PR,MP,HO	8911 MM	25
Friends of EBT:EBT Steel Caboose	PR,MP,On3	8903 NG	13
Funaro & Camerlengo:Gc idola	PP,PR,MP,HO	8907 RC	96
Funaro & Camerlengo:Gc idola	PR,MP,HO	8903 MM	22
Grandt-Line - Reefer	HON3,CM,MP	8908 MR	35
HO Cstm TR:D&H Ath Cstm 50' Box	PR,MP,HO	8911 MM	25
Hobby Haven:Farmer Co-Op Ath 54'Ps	PR,MP,HO	8911 MM	25
Jonan:Tank Car, Dbl Dome	PR,MP,HO	8907 NG	14
LGB:Rolling Stock	PR,MP,G	8901 NG	12
Loco Wrkshp:50' Sngldr	O,CM,MP	8904 ON	14
MDC 3 Bay Hopper	CD,MP,HO	8911 MG	54
Model Die Casting - Caboose	G,MP	8903 MR	51
Mdl RR Gen'l Store:D&RGW Stockcar	PR,MP,HO,On3	8907 NG	13
Mdl RR General Store:RGS Caboose	PR,MP,HO,On3	8905 NG	14
N-C Car Shops SP Stock Car	PR,MP,On3	8909 RC	98
Pbl:West Side Log Car	PR,MP,On3	8905 NG	14
PSC:Skelton Log Cars	PR,MP,O	8911 NG	14
PSC:WP&Y Caboose	PR,MP,HO,On3	8907 NG	12
Pacific Mdl:Snow Plow	PR,MP,1/2	8911 NG	12
Puffing Billy:NG Boxcar	PR,MP,HO	8905 NG	13
Russ Simpson:Cartier Bros Flatcar	MP,PR,CD,1/2	8909 NG	13
Sierra Car & Foundry - Flat	HO,CM,MP	8901 MR	54
Sunshine Models - Gondola	HO,MP	8912 MR	76
San Juan Car:D&RGW Boxcar	PR,MP,On3	8905 NG	12
Scenery Unltd:USRA Dbl Sheath Box	PR,CD,S	8905 MM	22
Simpson:Russell Log Car	PR,MP,1/2	8911 NG	14
Storzek Boxcar	PA,PP,MD,CD,DD	8903 RC	87
Sumpter Vly:Disconnect Log Trucks	PR,MP,O	8906 MM	22
Sumptervidepot:Snohomesh Log Truck	PR,MP,O	8905 NG	15
Sunshine Mdl:MP Panel Side Gon	PR,MP,HO	8904 MM	22
Sunshine Mdl:USRA Dbl Sh Rebl Box	PR,MP,HO	8907 MM	24
Sunshine Mdl:USRA Dbl Sheath Rebl	PR,MP,HO	8906 MM	22
Tichy USRA Twin Hopper	MP,HO	8909 MG	46
Tichy Train:USRA Hop 2 Bay	PR,PP,DD,HO	8905 MM	21
Tichy Train Grp:USRA Twin Hopper	PR,MP,HO	8908 RC	90
Trout Creek:D&RG Boxcar	PR,On3	8901 NG	13
Trout Creek:D&RGW 34' Stockcar	PR,HO,On3	8903 NG	13
Trout Creek:D&RGW 40' Reefer	PR,MP,HO,On3	8903 NG	13
Walthers Ps-1 Box Car	MP,HO	8907 MG	20
Walthers Cstm Pnt:MDC UTLX 50' Tank	PR,MP,HO	8903 MM	23
West Mdl RR Equip:AAR 50T Flat	PR,MP,HO	8901 MM	25
Westerfield USRA Boxcar	PR,MP,HO	8907 RC	95
Westerfield:Harriman Std Stock Car	PR,MP,HO	8908 MM	25
Westerfield:Heinz Reefer	PR,MP,HO	8906 RC	94
Westerfield:USRA Dbl Sheath DS Box	PR,MP,HO	8902 MM	23
8.14 Locomotive Kits for NTR See 8.2			
(Hmk)EBT 2-8-2	PR,MP,On3	8903 NG	12
(Om) D&RGW K-36	PR,MP,On3	8907 NG	14
(Om) Gilpin Shay	MP,PR,On2	8909 NG	13
(Om) Mason Bogle	PR,MP,On3	8907 NG	15
10 Wheeler from 2-6-2	CD,MP,HO	8904 RC	82
2-8-0 to 2-8-2	CD,MP,HO	8905 RC	80
A-Line Div, Proto Power West - Elect Hook UP	HO,CM,MP	8907 MR	47
Available O Scale Diesel Kits	MP,PR,O	8912 RJ	30
American Mdl:EMD GP9/GP18	PR,CD,MP,S	8906 MM	21
Atlas Alco:RS1	PR,MP,N	8903 RC	94
MDC 2-8-2 from 2-8-0	CD,MP,HO	8903 RC	77
MDC 4-6-0 from 2-6-2	CD,MP,HO	8904 RC	82
Mdl Die Casting:Three Truck Shay	PR,MP,HO	8910 RC	102
N Scale of Nevada - SW1200 Conv Kit	N,CM,MP,PP	8907 MR	40
Pacific from MDC 2-6-2	CD,MP,HO	8904 RC	82
Rail Pwr Prod:GE C32-B Shl	PR,MP,HO	8901 MM	25
Richard Phillips:PC DeWitt RS3M	PR,MP,HO	8903 MM	22
Stewart Hobbies Inc - F3 Dummy B's	HO,MP	8910 MR	51
Steam Kits	Ltr	8907 RC	8
Stewart Hobbies:EMD F3B PH2 Unpowl	PR,MP,HO	8908 MM	24
8.15 Self-Propelled Car Kits			
Car Works:Boeing LRV:Boston & Sanfr	O	8904 OR	18
8.16 Track, Track Support, Trackside Kits			
Bldg&Structure:Ash Pit	PR,MP,S	8905 NG	15
Durango Press:RGS Water Tank	PR,MP,HO	8911 NG	14

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
Juneco Sc Models:Bridge Abutments	PR,MP,HO,N	8903 RC	100
Juneco Sc Models:Bridge Wings	PR,MP,HO,N	8903 RC	100
Kato USA Inc - Unitrack	N,MP	8902 MR	62
Kato:Truss Bridge	PR,MP,N	8904 RC	96
Micro Eng Co - City Viaduct	HO,MP,PP	8904 MR	52
Micro Engineering Co - Bridge	N,MP,CM	8902 MR	68
Micro Engineering:City Viaduct	PR,MP,HO	8906 RC	92
Micro Engineering:Deck Plate Girders	PR,S	8905 SG	8
Oregon Rail Supply - Gantry Signal	HO,MP,CM	8911 MR	72
Oregon Rail Supply:Signal Bridges	PR,MP,HO	8912 RC	108
PSC:Water Tank, Brass	PR,MP,O	8905 NG	13
Roco/Walthers - Excavating Outfit	HO,MP	8910 MR	52
Randall Sc Models:Water Tanks	PR,MP,HO,HON3	8905 RC	98
Rix Prod:SWH Stand	PR,MP,HO	8907 MM	25
Track 2 Hobbies:Cork Roadbed	All Scales,PR	8901 RC	112
Trains of TX:Outbldgs	PR,MP,O	8905 NG	13
Water Tank	O,MP	8906 MR	47
8.17 Structure Kits			
Adler Models:Log Farm	PR,MP,HO	8905 RC	92
Ark:Viscalemdl:Maxvicksocialhouse	PR,MP,HO	8901 NG	12
Arkviscmld:Market	PR,MP,O	8911 NG	13
Arkviscmld:Grocery Store	MP,PR,O	8909 NG	16
Bldrs in Scale - Station	HO,MP,CM	8910 MR	44
Builders in Scale - Residence	HO,MP	8905 MR	49
Bldg&Structure:Welding Shop	PR,MP,S	8905 NG	15
Bldrs in Scale:Tenn. Pass Depot	PR,MP,HO	8905 NG	15
Bldrs in Scale:Tennessee Pass Depot	PR,MP,HO	8904 MM	23
C.C.Crow:Minden Milling	PR,MP,HO	8903 NG	13
C.C.Crow:SR Kinston NC Frt Stn	PR,MP,HO	8911 MM	25
Caboose Hobbies:Leavert Mine	PR,MP,HO,O,S	8911 RC	107
Caboose:Leavert Mine	PR,MP,HO	8905 NG	15
Cibola Crossing:Blacksmith Shop	O,CM,MP	8907 ON	14
City Classics:City Building Fronts	PR,MP,HOP	8907 RC	91
Detail Assoc - Roundhouse	HO,CM,MP	8901 MR	59
Dpm Mdl Wall Sys	MP,HO	8903 MG	30
Design Pres Models:Town Houses	MP,PR,HO	8902 RC	106
Design Presdrv.Mdl:Packing House	PR,MP,HO	8908 RC	100
Design Presdrv.Mdl:Pet Shop	PR,MP,HO	8908 RC	100
Dsgnpresmdl:Various	MP,PR,HO,S	8903 SG	12
Faller/Walthers - Depot	HO,MP	8903 MR	54
Faller/Walthers - Fuel Tank	N,MP,CM	8911 MR	73
Faller/Walthers - Ind Water Tank	HO,MP	8902 MR	82
Fine Scale Miniatures - Mach Shop	HO,MP,CM	8912 MR	72
Finestkind:The Shack	PR,MP,S	8905 SG	8
Five Peaks:Sawmill	PR,MP,HO	8907 NG	13
Gloor-Craft:Sandhouse	O,CM,MP	8901 ON	16
Heljan:Enginehouse	MP,PR,HO	8911 SG	9
IHC:650-Ton Coal Bunker:UP	MP,PR,N	8902 RC	107
IHC:Ready-Mix Cement Plant	PR,MP,HO	8912 RC	118
IHC:Storefront Houses	PR,MP,N	8911 RC	101
IHM/Pres:Wood Water Tank:50,000 Gl	MP,PR,O	8908 DR	16
International Hobby Corp - Corner Store	N,MP	8905 MR	46
J.Rendall Sc Models:Mining Co.	PR,MP,HO	8903 RC	98
Life-Like:Vacation Home	PR,HO	8901 MM	27
Link & Pin:Pozo Shalthouse	PR,MP,HO	8907 NG	13
Magnuson Models - Store Bldg	HO,MP,CM	8912 MR	68
Morse Prod:Gutted Building	PR,MP,HO	8911 RC	104
Pikestuf - Modern Industry	HO,MP	8905 MR	49
Pola/Walthers - Gen'l Store	G,MP	8902 MR	63
Pola/Walthers - Station	HO,MP	8907 MR	36
Pola:Bldgs, Westrn Ptyp	PR,MP,G	8907 NG	15
Pola:Coaling Twr	PR,MP,LGB	8902 MM	23
Pola:Crick Station	PR,MP,HO	8912 RC	124
Pola:Station	PR,MP,G	8912 RC	113
Railroad Ave Model Works Ltd-House	HO,CM,MP	8903 MR	56
RR Ave Mdlwks:Hotel	PR,MP,HO	8905 MM	22
Rick'sgrnde:D&RGW Pipe Gon	PR,MP,HO,On3	8901 NG	14
Sand Creek Mdl:Airspray Bottle	PR,MP	8912 RC	112
Sceneryunltd:Leavert Mine	PR,MP,O	8901 NG	13
Sheepcot Sc Prod:Coal Twr 150 T	PR,MP,HO	8911 MM	24
Sublime Design:Quonset Hut	PR,MP,HO	8903 NG	12
Tom's RR Corner:Welding Shop	PR,MP,HO	8911 NG	13
Vollmer/Walthers - Bank	HO,MP	8902 MR	70
Vollmer/Walthers - City Fire Station	HO,MP	8911 MR	55
Walthers - Station	LARGE SCALE,MP	8909 MR	47
8.18 Vehicle Kits			
Ammdl Bulldozers:Bates Crawler	PR,MP,O	8907 RC	93
CHB Models:Mack Ac Truck	PR,MP,O	8905 RC	98
CHB:Mack Truck	PR,MP,O	8905 NG	13
Con-Cor:Tractor & Van	MP,PR,HO	8902 RC	100
Hudson Carriage:Logging Equipment	PR,MP,O	8905 NG	12
Interall - Trailer Chassis	N,MP	8901 MR	48
Jonan:Mack Truck	PR,MP,HO	8901 NG	14
Kwikit:Caterpillar 60	PR,MP,HO	8901 RC	101
Kwikit:Caterpillar Tractor	PR,MP,HO	8905 NG	14
Kwikit:Chevy:1927	PR,MP,HO	8901 RC	101
Kwikit:Autos	PR,MP,HO	8911 NG	14
Mattel:Highway Snowplow	PR,MP,S	8903 SG	13
Mattel/Walthers - Autos	HO,MP	8909 MR	50
Sc Models:1932 Chevy Roadster	MP,PR,1:20	8902 RC	108
Wlkr Mdl Svc:L.I. Case Steam Tractn	PR,MP	8907 ON	19
8.19 Miscellaneous Kits			
A W Entp:Tina's Tart Shop	PR,MP,HO	8911 MM	24
Actronix - Defect Detector	ALL SCALES	8911 MR	70
Alumilite - Casting Plastic	MP	8904 MR	48
American Std Car Co - Pass Trks	O,MP	8910 MR	53
Alumilite:Cast Medium,Urethane	PR,MP	8911 NG	12
Boortown Mdl:Walking Beam Oil Pump	PR,MP,HO,N,S,O	8905 MM	22

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
Builders in Sc:UP Snow Fences	PR,MP,HO	8904	RC 102
Cal Scale - PA RR Detail Parts	HO,MP	8912	MR 64
CHB Models - Figures	MP	8909	MR 52
City Classics:Grant St Iron-Front	PR,CD,HO	8905	MM 23
City Classics:Penn Ave	PR,CD,HO	8906	MM 23
Diamond Scale Const - Utility Poles	HO,CM,MP	8901	MR 62
Division Pt:Sand Blast Booth	PR,MP	8911	NG 12
Faller/Walthers - Pedestrian Overpass	HO,MP	8908	MR 54
G-R-S Model Brass - Hobo Diorama	HO,MP,CM	8911	MR 65
G-R-S Mdl Brass:Fire Simulator	PR,MP	8912	RC 107
Grs Mdls:Campfire	PR,MP	8903	NG 14
Grs:Street Lamps	PR	8903	SG 12
Hobby Specialties - DC Motor	MP	8908	MR 46
IHC:Sanding Twr	PR,CD,HO	8910	MM 25
Kibri/Walthers - Backhoe	HO, MP	8905	MR 38
Kibri/Walthers - Gantry Crane	HO,MP	8902	MR 63
Kuras Design:	MP,PR	8909	NG 14
Mdl Brass P&S:Animated Scene	PR,MP,HO	8906	RC 89
Mr. Plaster:Ovens:Culvers:Misc	PR,MP,S	8903	SG 13
N J International - Meters	MP	8906	MR 54
N Scale of Nevada - Lumber Goods	HO,N,CM,MP	8908	MR 47
NJ International - Three Light Signal	N,MP	8907	MR 48
Oregon Rail Supply:Sgnl Bridge	PR,MP,DD,HO	8903	MM 21
Pbl:Bottle Bases	MP,PR	8909	NG 16
PSC Trks:PRR Pgr:Kit	O,CM	8910	OR 21
Pine Trees	PR,MP	8904	ON 17
Roanoke Electronics - Bell & Flasher Control	MP	8908	MR 51
RR Ave Mdls:Figures	PR,MP,O	8903	NG 14
Silver Spike Ltd - HO Cplrs	HO,MP	8911	MR 67
Sheepscot Sc Prod:Interlocking Twr	PR,MP	8907	MM 24
Sievers:Benchwork	MP,PR	8907	SG 13
Sublime Design:Quonset Huts	PR,CD,HO	8901	MM 26
Triangle Scale Models - Oil Pump	S,CM,MP	8901	MR 63
Thomas A. Yorke:Shacks/Shanties	PR,MP,O	8902	MM 22
Tomar:Dwarf Signal	PR,S	8903	SG 13
Trains of TX:Cast Boiler	PR,MP,O	8911	NG 14
Westerfield - Frt Trucks	HO,MP	8901	MR 68
Westerfield:Gon Containers	PR,MP,HO	8904	MM 22
Wlkr Mdl Svc:J.I. Case Steam Tractn	PR,MP	8907	ON 19
9.2 Motive Power Performance			
Atlas Alco:RS1	PR,MP,N	8903	RC 94
Bachman:EMD GP30	PR,MP,HO	8906	RC 85
Calculated Loco Capacity	CM,MP	8911	NS 47
How & Why Tests	MP	8903	MG 44
Kato Mechanisms	PR,N	8907	NS 16
Kato:EMD F3 A&B	PR,MP,N	8905	RC 94
Kato:EMD:GP50	MP,PR,N	8902	RC 99
Kato:GE U30C	PR,MP,N	8911	NS 12
9.20 Locomotives as Built			
Alco FA-2:Weaver:3-Rail:Mode	O,PR,MP	8906	OR 19
American Models - EMD GP9/18	S,MP,PP	8905	MR 40
Atlas Tool - GE U25B	N,MP,PP	8905	MR 35
Atlas/Kato U25B	N,PR	8906	RJ 20
American Models:Geep 9/18	PR,MP,PP,S	8905	SG 11
Bachmann - N&W J 4-8-4	N,MP	8904	MG 38
Bachmann - PRR K4	HO,MP,PP	8909	MR 45
Bachmann 4-6-0	G,PR	8906	RJ 22
Bowser PRR K4; 4-6-2	CD,MP,HO	8902	MG 46
Bachman:EMD GP30	PR,MP,HO	8906	RC 85
Beaver Crk Mdl.Co.:Williamette Shay	PR,MP,HO	8908	RC 97
E&P Assoc - EMD SD40-2	HO,MP	8903	MR 48
Hallmark; EMD F3A & B	CD,MP,N	8901	MG 32
Kato USA Inc - EMD F3's	N,MP	8902	MR 58
Kato:GE U30C	PR,MP,N	8911	NS 12
Key Imports:UP 4-12-2	PR,MP,HO	8905	MM 23
Key Imports:UP 4-6-4	PR,MP,O	8907	MM 23
Life-Like F9, N Scale	N,PR	8908	RJ 8
Lifelike Products,Inc - EMD GP38-2	N,MP	8903	MR 43
Lionel PRR 4-4-2	CD,MP,G	8904	MG 42
Lionel Trains Inc - TV Camera Train	HO,MP	8902	MR 51
Life-Like:EMD B12	PR,MP,HO	8910	MM 23
Marketing Corp of America:PRR GG1	PR,MP,No.1	8908	MM 25
Overland Mdls:RS Alco	MP,S	8907	SG 12
Overland:CMS:P&P 4-6-0 #1446	PR,MP,HO	8911	MM 25
Overland:EMD E-Units:1989	O,PR	8907	ON 20
P&D O Scale Brass GP7	MP,PR,O	8907	RJ 60
Pbl Sn3 Mikado	SN3,MP,PP	8912	MR 61
Performance Kato Mechanisms	PR,N	8907	NS 16
Precision Sc:NYC 4-6-0 F12A	PR,MP,HO	8907	MM 25
REA 2-4-2T	CD,MP,G	8903	MG 42
Row Inds:C&O H-6:2-6-6-2:3 Rail	MP,PR,O	8908	OR 15
Sunset Models - PA 0-4-0	HO,MP,PP	8906	MR 45
W & R Enterprises - EMD 45 & FP45	N,MP,PP	8906	MR 39
W&R Entp:EMD F45 FP45	PR,MP,N	8901	MM 27
Weaver Models Inc. - Alco FA-2 & FB-2	O,MP,PP	8904	MR 35
Williams Reproductions - PA 4-4-2	O,MP	8901	MR 70
Weaver:Alco FA-2:2-Rail	O,MP	8901	ON 12
Weaver:Alco:RS-3	O,CD,MP	8705	MR 35
Weaver:Alco:RS-3	O,CD,MP	8709	RC 91
Williams:USRA Lt 4-6-2:2-Rail	O,MP	8904	ON 13
9.21 Motor Replacements			
Bachman 4-6-0:Track Powering	CD,WD,DD,G	8904	RC 71
9.22 Drive System Replacements			
Loco Tune UP	DD,MP	8905	NG 43
Loco Tune UP, Gear Interferences	DD,MP	8907	NG 27
Repowering	HO,CM,MP,CHARTS	8906	MR 70
9.25 Performance Improvement Techniques			
A-Line Div, Proto Power West - Elect Hook UP	HO,CM,MP	8907	MR 47

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
Bachman N Scale Sd-40-2	PR,MP,N	8909	RJ 12
Central Loco Works F7A and A	MP,PR,O	8909	RJ 50
Calculated Loco Capacity	CM,MP	8911	NS 47
Delton G Gauge D&RG 2-8-0	MP,PR,G	8912	RJ 14
Hallmark On3 EBT 2-8-2 #15	MP,PR	8908	RJ 48
Hallmark/Sam F3A and B	MP,PR,N	8907	RJ 34
Life-Like EMD BL-2	HO,MP,PR	8911	RJ 8
Lionel 0-4-OT G Gauge	MP,PR,G	8910	RJ 26
Loco Tune UP	DD,MP	8903	NG 35
Loco Tune UP, Electrical	DD,MP	8909	NG 58
Loco Tune UP, Electrical	DD,MP	8911	NG 68
Ortl Ltd/Powerhouse USRA 2-8-2	MP,PR,HO	8907	RJ 32
Repowering:Tyco GP20	Full CD,MP,DD,HO	8906	RC 76
Stewart/Kato F3A and B	MP,PR,HO	8909	RJ 52
Traction Track-Cleaning Car	Full CD	8910	RC 70
Weaver Alco FA-2	MP,PR,O	8907	RJ 36
Williams:4-6-2:Early Vers:Imprvmnts	Ltr,CM,CD	8908	OR 51
9.3 Toy & Model Train Parts			
LGB:Knuckle Coupler	PR,MP,G	8904	RC 95
9.30 Passenger Cars			
Air Cndng Duct:New England Rail	PR,CD,HO	8906	MM 23
Bob Rzasas:Pgtr Trucks 41-BNO	PR,HO	8906	MM 23
Concor:Baggage:Smoothside	PR,MP,N	8901	RC 107
New England Rail:Air Cndng Duct	PR,CD,HO	8906	MM 23
Precision Sc:Trucks	PR,MP,HO	8905	MM 22
Scenery Unit:65' Pgtr Cars	PR,MP,S	8903	SG 13
9.31 Freight Cars			
Grandt Line:C&S Reefer	PR,MP,HO	8901	RC 114
Heartland S Rail:5 Car Set	PR,S,MP	8903	SG 14
Precision Sc:Trucks	PR,MP,HO	8905	MM 22
9.32 Locomotives			
A-Line Div, Proto Power West - Elect Hook UP	HO,CM,MP	8907	MR 47
Air Grill F-Unit:Dtl Assoc	PR,CD,HO	8906	MM 23
Air Horns 3&5 Chime:Dtl Assoc	PR,MP,HO	8910	MM 25
Air Horns M3/M5:Dtl Assoc	PR,CD,HO	8906	MM 22
Alco RS Stack:Bob Rzasas	PR,HO	8906	MM 23
Alco Coal Pusher:Bob Rzasas	PR,HO	8906	MM 23
Cannon & Co:EMD Sw9	Full CD,MP,HO	8910	MM 49
Cannon & Co:SWH Cab	PR,CD,HO	8909	MM 23
Dtl Assoc:Air Grill F-Unit	PR,CD,HO	8906	MM 23
Dtl Assoc:Air Horns 3&5 Chime	PR,MP,HO	8910	MM 25
Dtl Assoc:Air Horns M3/M5	PR,CD,HO	8906	MM 22
Dtl West:F&E Unit Pts	PR,CD,HO	8905	MM 23
GE U25 Glazing	CD,CM,MP,HO	8906	MM 32
Kato:C&O GE U30C	PR,MP,N	8911	MM 23
Kato:EMD:GP50	MP,PR,N	8902	RC 99
Minitrix:U28C:U30CG	FM,MP,N	8911	NS 56
N Scale of Nevada - SW1200 Conv Kit	N,CM,MP,PP	8907	MR 40
NH Headlight/Bracket:Bob Rzasas	PR,HO	8906	MM 23
Rail Pow Prod:GE C30-7 Shl	PR,MP,HO	8904	MM 23
Rail Power:GE C32-8 Shell	PR,MP,HO	8907	RC 92
Rail Pwr Prod:SD60 Shl	PR,MP,HO	8909	MM 25
SD60 Shl:Rail Pwr Prod	PR,MP,HO	8909	MM 25
SD60 Wide Cab:Smoke Vly	PR,PP,CD,HO	8909	MM 25
Shl & Frame EMD GP15:Smoke Vly	PR,CD,HO	8908	MM 23
Smoke Vly:SD60 Wide Cab	PR,PP,CD,HO	8909	MM 25
Smoke Vly:Shl & Frame EMD GP15	PR,CD,HO	8908	MM 23
SWH Cab:Cannon & Co	PR,CD,HO	8909	MM 23
Tiger Vly Mdls:RS36 Louv Shlds N&W	PR,CD,HO	8901	MM 26
9.35 Railroad Running Gear			
Amer Std:S-Whl Pullman Trks	PR,MP,O	8904	ON 18
Bob Rzasas:Roller Bearing Trks 70 T	PR,MP,HO	8908	MM 24
D&G Mdls:GSI 3-Bolster Pass	PR,MP,HO	8907	RC 98
PSC Trks:Syrington Hi-SP:Brass	O,PR	8910	OR 20
Products By Culp:Wheels	PR,MP,G	8907	NG 12
Startec:Sound System	PR,MP,O,G	8903	NG 13
Weaver:Bettendorf Trks	O,MP	8901	ON 18
9.36 Track			
Antique Trains:S Gauge Lockons	PR,S	8911	SG 9
High Sierra Mdls:SWH Dtl	PR,O	8908	MM 24
LGB:Track	PR,MP,G	8907	NG 12
LGB:Turnouts	MP,PR,G	8909	NG 15
9.37 Structures			
Dpm:Walker Bldg	PR,MP,HO	8904	MM 22
P Co:PRR Pipe Fencing	PR,MP,HO	8910	MM 25
Walker Model Svc:100 PC Dtl Set	O,MP	8907	ON 17
9.38 Detailing Parts			
Bill Roy:Cast Parts	MP,PR,O	8909	NG 12
Bob Rzasas:NH Scalecoat Cstm Mix Pnt	PR	8901	MM 26
Builders in Sc:Victorian Shingles	PR,MP,HO	8901	RC 108
Cannon Cabs	PP,PR	8901	MG 9
Colo Sc Models:Ncng Decals	PR,MP,ON3	8909	RC 100
Diesel and Car Details	PR,MP,HO,S,N	8909	RC 95
Dtl West:Trackside Pts	PR,CD,HO	8901	MM 27
Evergreen Hill Dsgns:Shovel:Saw:Hinge	PR,MP,S	8905	SG 7
Grs:Super Flammaker	PR,MP	8907	NG 13
Hudson Carriage:Cast Horses	MP,PR,O	8909	NG 15
Ialington Stn:NP 40'GS Chip Gon Dcl	PR,DD,HO	8908	MM 24
John W. Hall:Decals	MP,PR,S	8907	SG 14
Mdl RR Supply Monon Dcl	PR,HO	8901	MM 27
Microscale:LMX B39-8 Dcl	PR,MP,HO	8902	MM 23
Microscale:PFE Reefer:D&RGW Dcl Dcl	PR,CD,N,O	8903	MM 22
Microscale:Misc Decals	PR,S	8903	SG 15
Microscale:Stainless Stl Trim Film	PR,CD	8904	MM 23
Middle Div:PRR Twin Hop Dcls	PR,DD,O	8908	MM 25
Missabe RR Hist Soc:DM&IR Cbsc Dcl	PR,DD	8902	MM 21
Morse:Plaster Cast Parts	MP,PR,HO	8909	NG 14
N Sc of Nevada:Del Retro-Frames	PR,CD,N	8904	MM 23

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
N Sc of Nevada:Lbr LDS	PR,CD,N	8905	MM 22
N Sc of Nevada:Lbr Loads	PR,MP,HO	8907	MM 25
Overland Mds:Bulldozers DB's	PR,MP,HO	8904	MM 22
Overland:Water Cranes/Cinder Convey	PR,MP	8904	MM 20
Ozark:Detail Cast Parts	PR,MP,G	8911	NG 13
PSC:Cast Parts	MP,PR,1/2	8909	NG 12
Powersystem:Sound Modules	PR,MP	8907	NG 14
Richard Fink:C&IM Dcls	PR,CD,HO	8904	MM 23
River Rainin Mds: Wab Hop Dcl	PR,CD,HO	8901	MM 26
Ryan:Equipment:D&RGW Truck Brakes	PR,MP,G	8903	NG 14
Se Ltd:Figures	PR,MP,O	8901	NG 12
Scale Cable:Vintage Repro	PR	8901	MM 27
Smokey Vly:Side Frames Fm C-Liner	PR,MP,HO	8904	MM 21
Starr:	MP,PR	8909	NG 14
Super Dting AFC Centerflow	FM,CM,DD,N	8907	NS 50
Vintage Repro:Scale Cable	PR	8901	MM 27
Vintage(repro)Cables	PR,MP,All Scales	8901	NG 14
Virnex Ind:El&E #6009 Dal Dcl	PR,HO	8908	MM 25
Walker Model Svc:100 PC Dtl Set	O,MP	8907	ON 17
Walthers:Cushion Car Hoods	PR,MP,HO	8901	MM 27
Walthers:Steel Coils	PR,MP,HO	8904	MM 22
9.4 Containers for Parts & Equipment			
Display Cases:Clear Case	PR,MP	8910	MM 25
Wall Display Mt:MW Display Craft	PR,PP	8906	MM 23
Workbench	CD,CM,DD	8909	MM 74
9.5 Product Warnings			
Barrier/Glossing Shield:Floquil	PR	8910	SM 8
9.7 History of Toy/Model Train Publications			
Miniature Railroad		8912	MG 13
Model Railroad Digest		8912	MG 13
The Whistle Stop		8912	MG 13
9.71 Bibliographies			
HO Monthly		8911	MG 13
Model Railroad		8909	MG 51
Traction Magazines Pub	List	8904	OR 50
9.72 Indexes			
Althorn Locos/Cars		8909	MG 4
ATSF Yard Structures/Depots		8910	MG 44
Backdrops/Water Modeling		8909	MG 64
Box Cars:Ps-1:2		8901	MG 4
Canadian Stock Cars		8912	MG 33
Cars:Locos:Structures		8903	MG 4
Diesel Detail Close-Ups		8905	MG 4
Frt Cars of the 30's		8907	MG 4
Frt Cars of the 60's		8906	MG 16
Indexes		8908	MG 4
Index		8906	RC 1
Index, '87 Mdl Mags	BR	8909	NG 89
Lyt Planning: Catn		8902	MG 4
Milw Observation Cars		8912	MG 33
Name Observations		8911	MG 10
NMRA Periodical Index 1987	INDEX	8905	BL 15
NMRA Periodical Index 1988	INDEX	8912	BL 15
Performance Reviews		8910	MG 4
PRR 4-4-2 in Print	INDEX	8907	MG 10
SP & D&RGW Stock Cars		8908	MG 28
9.8 Reviews of Publications and Videotapes on Model Railroading			
A.F. O Gauge Guide	BR	8908	BL 33
Civil War RRs	BR	8909	NG 89
Diesel Spotter's Guide	BR	8909	MR 42
Great Model RR	VR	8911	MG 42
Greenberg Pub Co - Amer Flyer S	BR	8902	MR 47
Greenberg Publishing - Amer Flyer	BR	8909	MR 42
Greenberg Publishing Co - LGB	BR	8912	MR 177
Greenberg Publishing Co - Lionel	BR	8904	MR 128
Greenberg Publishing Co - Lionel	BR	8912	MR 176
Greenburg's Guide to Lionel Trains	BR	8909	RC 105
Hopewell - Model RR's	VR	8901	MR 26
Hopewell Prod Inc - Great Model RR's VOL 3	VR	8911	MR 147
Kalmbach - Diesel Spotting	BR	8909	MR 42
Kalmbach - Electronics	BR	8903	MR 145
Kalmbach - Kbeh Structures	BR	8903	MR 145
Kalmbach - Scenery Tips	BR	8910	MR 152
LGB Guide	BR	8908	BL 33
Marx Guide	BR	8911	BL 12
Model Railroading With LGB	BR	8908	RJ 55
Model RR With LGB	BR	8911	BL 12
NG Data Book	BR	8909	NG 89
Periodical Indices(Mr,RMC,Finesines)	BR	8911	NG 90
Reading & P&R Steam Locos	BR	8910	OR 27
Stephan's RR Directories	BR	8907	MG 9
Tm Books Inc - Tintplate	VR	8906	MR 146
Western Rail Images - Zero 1	BR	8902	MR 47
Worldwide Mags	LISTING	8902	MR 136
9.9 Sales and Distribution			
Boortown Mds:Oil Well Pump	PR,MP	8905	NG 12
9.91 Distributors			
100 S Scale Companies	MP,List	8907	SG 22
9.92 Shops & Mail Order Houses			
100 S Scale Companies	MP,List	8907	SG 22
9.97 Sales Catalogs			
Seaboard Air Line Motive Power	BR	8906	RC 39
Steam Locomotive Directory of N.A.	BR	8906	RC 36
P1 Historical Information on Prototype Railroads			
1937/42 AAR Std Box Car:1	PA,PP,PS	8902	MG 23
1937/42 AAR Std Box Car:2	PA,PP,PS	8904	MG 44
1939 NY World Fair:160X40:Pt 1	Discussion,LP,O	8908	OR 19
AAR Frt Cars:1	PA,PP	8911	MG 43

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
AAR Frt Cars:2	PP	8912	MG 61
Art Refer History 1	PA,PP	8903	MG 50
AT&SF:Newton Kansas	Correction	8907	RC 12
AT&SF:Newton Kansas	Ltr,PP	8907	RC 14
AT&SF:Newton Kansas	Ltr	8908	RC 8
AT&SF:Newton Kansas 1948	PA,PP,PM,DD	8904	RC 50
AT&SF:Newton Kansas	Ltr	8908	RC 8
Alberene Stone	PP,PA,PM	8903	NG 17
Alco C630 Pt 2	PA,PP,SD,S	8909	MM 55
Alco C630/M630 Pt 1	PA,PP,DD	8908	MM 60
Allentown-Bethlehem, PA RR's	PA,PP	8907	LQ 42
B&LE:SD18Mdl	PP,SD,CD,MP,HO	8905	RC 85
B&M FT's at Hoosac	PA,PP,PM	8912	RF 58
B&M Power:Part 1	PA,PP	8910	LQ 1
Boston, Ma Intermodal Yard	PA,PP	8908	RJ 20
Brills in Hills:2	PA,PP	8910	RF 59
Bachmann:Cable Car	PR,MP,HO	8907	RC 100
Bamberger 570	Letter,PP	8904	RC 8
Bodie & Benton	Letter	8905	RC 8
C&NW Piggyback Service Pt 4	Full CD,MP,HO,PA,PP	8901	MM
C&NW Piggyback Service Pt 5	Full CD,MP,DD,HO	8902	MM 24
C&O:2-6-6-2	PA,PP	8907	LQ 24
C&O:Danville WV:1950	PP	8911	NS 50
C&S Engine #9 Comes Home	PA,PP	8904	SM 17
Cars in Context	PA,PP	8904	MG 20
Cars in Context: Staten Island, NY	PP,PA	8909	RJ 45
CB&Q: Cicero, IL: Apr 1958	PP	8903	MG 16
CN: Scenic Prairies	PP	8910	RC 54
CN:RSC24 Letterboard	Letter,PP	8905	RC 12
Colorado	PP	8906	MR 98
CPR:Main Line:1	PA,PP,PM	8905	RF 40
CPR: Cookshire Show	PA,PP,PM	8902	RF 33
Clinchfield Steam Pwr, 1951	PA,PP	8901	LQ 44
Columbia Riv. Portage RRs	PM,PP,SD,DD	8911	NG 29
D&H Box Car Buying:2	PA,PP	8907	MG 44
D&H:Second Subdivision	CD,PP,PM	8901	RC 78
DH&W:Coal	CD,DD,LP,PM,HO	8902	RC 84
Double-Decker Tram or Subway	PA,PP	8901	RC 54
EL:SD45	Article	8912	RC 126
EMD R's:1	PA,PP	8905	RC 50
EMD R's:2	PP	8910	RF 73
EMD R's:50 Years:1	PP	8911	RF 73
EMD R's:50 Years:2	PA,PP,PM	8910	RF 47
EMD R's:50 Years:3	PA,PP,DD	8911	RF 48
EMD: Repower	PA,PP	8912	RF 76
Erie: Collins Curve	PP	8903	RF 38
Elgin, Joliet & Eastern - 1	PP,PM	8903	RF 44
Elgin, Joliet & Eastern - 2	PA,PP,PM	8908	TR 26
Finding Old Equipment Data	PA,PP,PM	8909	TR 28
Fire Barrels	Editorial	8910	RC 6
GTW:Drop Bottom Gons	PA,Letter	8904	RC 15
Island Railroads	PA,PP,SD,HO	8903	MM 50
Katy: Remembered:2	Editorial	8901	RC 6
Katy:Remembered:2	PA,PP,PM	8907	RF 40
L.A., CA Feb 1966	PA,PP	8908	RF 34
LCL Containers	PP	8902	MG 14
LCL Containers	PA,PP,DD,MP	8904	MM 60
Leadville	PA,PP,DD	8905	MM 57
Leadville	PP	8905	MR 70
Leadville	PP	8906	MR 90
Living Daylight	MP,CD,LP	8907	MR 88
Light Steam Locos	PA,PP	8908	MG 11
Light Out:Headlights	PP	8909	NG 80
Lima Scrapbook	Article,PP	8906	RC 48
Locomotive Headlights	PA,PP	8904	MM 68
Logging, Wash. State, Pt 3	Ltr	8908	RC 10
M&U/M&NJ	PP,PA,PM	8901	NG 35
M&U/M&NJ	PA,PP,PM	8908	RC 70
M&U/M&NJ	PP,MP,PM,LP	8909	RC 72
M&V/M&NJ	Ltr	8911	RC 9
MEC: Cobbessee Branch	Ltr,PP	8912	RC 8
MEC:Low Side Gone	PP,PA,PM,DD	8908	MG 59
MEC:Low Side	Letter	8910	RC 7
Miller Photo Coll.	Ltr	8908	RC 14
Milw Power:Pre-1925	PP	8903	BL 38
Milw Power, Post-1925	PA,PP	8904	LQ 1
Milw:West	PA,PP	8907	LQ 1
Milw:West Part 2	PA,PP,SD,N	8909	NS 48
Macon, Ga RR's:CG:Sou:Ect:	PA,PP	8911	NS 42
Making Steel	PA,PP	8910	LQ 52
Mallet Loco, New Zealand	PA,PP	8908	RC 46
Mixed Trains	PP,PA	8909	NG 28
Models in Uniform	PP,MP	8903	NG 80
Models in Uniform	Editorial,PA	8907	RC 6
Monons 40' Pa-1 Boxcars	Letter	8909	RC 7
Monorail, Pelham Park	PA,PP,MP,CD,HO	8904	RC 57
NCNGRR:No. 9: 2-8-0	PP,PM,PA,SD	8901	NG 26
NCNGRR:No.9:2-8-0	PA,PP,SD,Sn3	8909	RC 62
Neligh Mills, Nb	Ltr	8912	RC 20
NKP:Stock	PA,DD,PP	8908	MG 46
NOPB:Engine Terminal	PA,PP	8905	RC 50
NP:Bay-Wdw Cose 36' Box Rbld	PA,PP,DD	8910	MM 54
NKP	CD,PP,MP,SD,HO	8904	MM 36
NS:EMD:SD50	Letter,PA	8901	RC 8
New Haven Memories	PP	8911	NS 50
Once in a While	PA,PP	8901	TR 30
	Editorial	8902	RC 113

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
PR&N:Timber Oregon 1939	PA,PP,PM	8907 NS	54
PRR:Summer Excursions:1980	PA,PP	8901 ON	58
Piggyback	Editorial	8901 RC	122
Port of Albany NY	PA,PP,DD	8902 MM	68
Porter Locos	PP	8901 NG	78
Pullman Potpourri	PP	8909 MM	67
Railroad Men	ART	8912 RF	73
Reno, NV Intermodal Yard	PP,PA,MP	8908 RJ	18
RGS 1st Annual Report 1992	Letter	8910 SM	27
Rt:Depot Inman Kansas:Mdl:	PP,CD,SD,MP,N	8907 RC	79
Rt:Auto Car/Wd Chip Rebirds	PA,PP,SD,HO	8911 MM	46
Rt:Slides 1973-1980	PP	8902 MM	21
RR Slang	Article	8901 ON	54
RR Slang	Article	8907 ON	55
Rutland, Vt Aig 1950	PP	8901 MG	37
Railroad Tales	Editorial	8901 RC	122
Soo:Depot Mellen Wisconsin	PA,PP,DD,HO	8904 RC	61
Soo:Depot:Mellen	CD,MP,HO	8905 RC	72
SP:Cloudcroft Branch	Letter	8905 RC	7
SP:GE 70 T Engineer's Comments	PA,PP	8902 MM	62
SP:Turntable	PA,PP	8903 RC	46
Spencer For History	PA,PP	8911 RF	60
Smoking Diesels	PP	8908 RC	110
Smoking Diesels	PA,PP	8904 RC	48
Steel Containers	Letter	8903 RC	12
TOFC Service	Letter	8906 RC	10
Third Rail	PA,Editorial	8906 RC	6
Tragedy in Durango:Roundhouse Burns	PA,PP,DD	8904 SM	14
Two Double Stacks	Editorial	8901 RC	122
Union Term:	PA,PP,PM	8908 RF	39
UP 4-6-2:Harriman:Light & Heavy	PA,PP	8910 LQ	36
UP:Bamberger	Letter,PA	8901 RC	8
UP:Bamberger	PA,Letter	8902 RC	8
VGN at Roanoke, Va	PA,PP	8904 LQ	48
Virginian Northern	PA,L,CM	8907 RC	87
Western Allegheny RR	PA,PP,PM	8906 RJ	32
Why Buy Videotapes?	EDITORIAL	8903 BL	16
WW&F Rte Trace	PP,PM	8907 NG	78
WW&F Rwy	PP,DD	8905 NG	79
West Side Line	Letter	8904 RC	12
White Pass & Yukon	PA,PM,PP	8904 SM	24
Wreck of the Cascade:Crescent Lk	PA,PP	8903 MM	28
Yosemite Valley Rwy	PA,PP,MP,PM	8908 RC	51
P2 Current Prototype Information			
20 Years - Cleveland Airport	PA,PP	8905 RF	28
Aaprc: 1988	PA,PP	8901 RF	68
Alberta Bound	PA,PP,PM	8903 RF	32
ATSF Super Fleet	PA,PP	8910 RF	66
Alabama's	PA,PP,PM	8909 TR	24
Amtrak:Glenwood Canyon CA Zephyr	PP	8909 MM	1
Amtrak's California Zephyr	PA,PP	8912 TR	68
Amtrak's Montreal Returns	PA,PP	8910 TR	26
Atlanta's New Georgia Ry.	PA,PP,PM	8902 TR	42
Baltimore:Light Rail Cars	PA	8907 RF	26
BN Powder River Coal Operations	PA,PP,PM	8911 TR	40
BN, UP in Columbia Gorge	PA,PP	8901 TR	40
Brills in the Hills:1	PA,PP,PM	8909 RF	42
Colorful Conrail	PP	8901 RF	73
CP:Tunnel Maintenance	PA,PP	8902 RC	54
CPR:Main Line:2	PA,PP	8906 RF	46
CPR:Main Line:3	PA,PP,PM	8907 RF	26
CPR: Steam in Me	PA,PP	8909 RF	65
Ct Trolley Expands	PA,PP	8909 RF	34
Cedar Shake Mill, Ptyp	PP,PA,PM	8905 NG	23
Convention Sight-Seeing	PP	8907 NG	66
Dakota Sou.	PA,PP,PM	8902 RF	30
Deep Creek ID:BN	PP	8903 MM	61
Durango Fire	PP	8903 NG	63
Eastbound	PA,PP	8904 RF	32
Elegant F7S	PA,PP,PM	8905 RF	57
Florida West Coast	PA,PP,PM	8912 RF	66
France's TGV	PA,PP,PM	8904 TR	53
Great Canadian Steam Ry. Excursion	PA,PP	8902 TR	20
Inco Limited Electrics	PA,PP,PM	8904 RF	48
Iowa Interstate	PA,PP,PM	8906 TR	44
Irish Railways	PA,PP,PM	8910 TR	50
Keokuk's Dam Trolleys	PA,PP	8901 RF	40
Kennecott Utah Copper Ry.	PA,PP	8903 TR	40
Kiamichi RR	PA,PP,PM	8909 TR	54
LA:50th Anniversary	PA,PP	8908 RF	47
LA:New Red Cars	PA	8912 RF	50
LC&S	PA,PP	8901 BL	19
Lemont, IL	PP	8905 MG	46
Martin's Campaign Train	PA,PP,PM	8904 RF	44
Mn Vi Rwy	PA,PP,PM	8901 RF	62
Mon Vi Farewell	PA,PP	8903 RF	24
Midsouth Operates Vicksburg Route	PA,PP,PM	8904 TR	30
NRHA 1989 Convention	PA,PP,PM	8911 RF	56
NRHS 89 Convention Specials	PA,PP	8911 TR	26
NY & Lake Erie	PA,PP,PM	8902 RF	44
Newfoundland Railway Abandonment	PA,PP	8901 TR	26
Ore Gone:Cu Concentrates	PA,PP	8909 MM	26
Patco Lindenwold Line	PA,PP	8908 RF	26
Ptyp RR: Astorail '89	PP,PM	8906 BL	29
Pulpwood Industry	PP,PA	8910 RJ	16
Port of Tillamook Bay RR, Oregon	PA,PP,PM	8908 TR	50
Pullman Leasing:Cov Hop	PA,PP,DD,SD,HO	8904 MM	24
Railfanning Seminole Gulf	PA,PP	8906 RF	42

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
Return of Ft #103	PA,PP	8912 RF	81
RF&P	PA,PP,PM	8909 RF	53
RR Restorations	PP	8909 NG	5
Seashore: 50 Years	PA,PP	8906 RF	30
San Diego:New Opening	PA	8911 RF	40
Seminole Gulf Rwy	PA,PP,PM	8906 RF	38
Streetscars For Chicago?	PA	8910 RF	38
Sw Portland Cement Co.	PA,PP,PM	8905 RF	47
Swiss Krok's	PA,PP,PM	8906 RF	54
Steam Runs Over BN	PA,PP	8907 TR	21
Toronto PCCS:50 Years	PA,PP	8902 RF	22
Trailer Train Annual Report	PA,PP	8907 RF	49
V&T #254-6-0:NV Fair	PP	8903 BL	40
Washington Metro	PA,PP	8904 RF	24
Wenatchee Daylight	PA,PP,PM	8906 RF	65
WP&Y Fan Trip?	PP,PM,PA	8905 NG	48
WP&Y: Return	PA,PP,PM	8903 RF	49
Working Side of Excursion Trips	PA,PP	8905 TR	39
P3 Railroad Night-of-Way			
BN Takes Over 2 Aband Soo Bridges	PA,PP	8905 TR	24
Edaville Rolling Stock	PP	8901 NG	78
NG Rails & Ties, Data	PP	8911 NG	63
RR Communications	PP,DD	8908 NG	66
Tie Installation, BN	PA,PP	8904 TR	28
P4 Railroad Rolling Stock Rosters			
Basic Freightcarology:1	PA,PP	8910 MG	19
Basic Freightcarology:2	PA	8911 MG	51
Basic Freightcarology:3	PP	8912 MG	25
Neng Museum	PP	8903 NG	64
P4C Car Rosters			
60' Appliance Cars	PA,PP	8910 RC	85
Art:1969-55	PA,PP	8903 MG	50
C&NW Quad Hop	PA,PP,SD,HO	8907 MM	47
Cars Built By Eastern Car Co (Can)	BR	8908 RJ	55
Century of Pullman Cars V1 Alphaist	BR	8902 MM	23
Coach, Fremont,Elkhorn & Mo. 6	SD	8905 NG	27
Combine, Fremont,Elkhorn & Mo. 6	SD	8905 NG	27
D&RGW Pgr Cars	PP,Ltr	8905 NG	68
GN #39500's 50 Ft Box	CM,PP,MP,HO	8905 MM	34
GN:71 Seat Smoking Cars #3500-3524	PA,PP,SD,HO	8902 MM	42
GN:RPO #58 & #59 & Similar Cars	PA,SD,HO	8901 MM	44
GN:Coach 62 R Series 4100-4159	PA,PP,SD,HO	8906 MM	44
GN:Compartment Obav	PA,SD,HO	8903 MM	44
GN:First Cla Coach 4250-4317	PA,PP,SD,HO	8907 MM	41
GN:Sleeper 14 Sec Tourist 6560-6611	PA,PP,SD,HO	8910 MM	42
GN:Slpng 16 Sec #8451-8456	PA,PP,SD,HO	8911 MM	43
Gundersen DTTX Cars	PA,PP,DD	8901 RC	96
M&U/M&NJ	PA,PP,PM	8908 RC	70
Milw:Composite Boxcar	PP,MP,CD,DD,N	8909 NS	24
Monon:Pa-1 50 Ft Box	CD,CM,PP,MP,HO	8906 MM	67
Neng Excursion Cars	SD	8905 NG	38
NWX:Reefer	Ltr	8907 RC	14
OAHU Rwy Baggage	SD	8907 NG	34
OAHU Rwy Coach	SD	8907 NG	34
OAHU Rwy Gondola	SD	8905 NG	56
OAHU Rwy Observation Car	SD	8905 NG	56
OAHU Rwy WDN Boxcar	SD	8903 NG	32
OAHU Rwy Caboose	SD	8903 NG	32
Pa 4165-5 Dbl Bdrm Buffet-Lounge	PA,PP,SD,HO	8905 MM	43
Pullman 7602 Parlor:C&O/MP/Njdot	PA,SD,HO	8904 MM	46
Pullman Cars, D&RGW	PP,PA	8901 NG	57
RDG:Loc Covered Hoppers	PA,PP,CD,HO	8906 RC	61
Trailer Train Report Consist -53	PA,PP	8907 RF	49
Thrall's DTTX Cars	PA,PP,DD	8901 RC	92
Thrall's DTTX Cars	Letter	8906 RC	10
Trailer Train's Spine Car	PA,PP,SD,HO	8907 RC	61
UP:A50-19 Excess Ht	PA,PP,DD,SD,HO	8907 MM	50
USRA Steel-Side Rebuilds	Full CD,MP,HO,PA	8910 RC	75
V&T Baggage/Mail Car	SD	8909 NG	32
V&T Express Car	SD	8909 NG	32
P4E Engine Rosters			
AA:EMD GP35	PA,PP,DD,PS	8903 MM	24
Alco:PA-1:2 & 3	MP,PP,SD,N	8907 NS	49
Alco C630/M630 Pt 1	PA,PP,DD	8908 MM	60
Berkshire and Texas Locos	BR	8908 RJ	55
BN/LMX Lease:GE B39-8	PA,PP,PS,DD	8911 MM	26
BN:GE U30C U33C C30-7	PA,PP,PS,DD	8907 MM	26
C&S #22	SD	8905 NG	50
CNJ:GP40P	PA,PP,PS,DD	8901 MM	28
CR:GE Dash 7 & 8's	PA,PP,DD,PS	8902 MM	73
Diesel Spotters Guide	BR	8908 RJ	55
Dickson 0-4-OST	SD,PP	8905 NG	28
E&J:EMD SD38-2	PA,PP,DD,PS	8904 MM	32
EJ&E Loco Roster	PA,PP	8909 TR	36
EMD Ft Production -54	PA,PP,PM	8910 RF	47
EMD GP30 Pt 1	PA,PP,SD	8905 MM	53
EMD GP30 Pt 2 (Phase 1)	PA,PP,SD,HO	8906 MM	43
EMD GP30 Pt 3 (Phase 2)	PA,PP,SD,HO	8907 MM	52
EMD SD9	PA,PP,SD,HO	8911 MM	33
Fairless Works Locos	PA,PP	8907 TR	49
Frisco 4-8-2's	PA,PP,PM	8903 TR	31
Inco Limited Electrics -53	PA,PP,PM	8904 RF	48
Iowa Interstate	PA,PP	8906 TR	54
Kennecott Copper's EMD Fleet	PA,PP	8903 TR	44
Kiamichi Locos	PA,PP	8909 TR	58
Lease Fleets (GATX, HNL, NRL)	PA,PP	8910 TR	36
Light Steam Locos	PP	8909 NG	80
M&U/M&NJ	Ltr	8911 RC	9

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
M&U/N&NJ	PP,MP,PM,LP	8909 RC	72
M&V/M&NJ	Ltr,PP	8912 RC	8
MKT Diesel	PA,PP	8908 RF	36
MKT Steam	PA,PP	8908 RF	34
Ncng #2	SD	8903 NG	68
PRR 2-10-4	PA,PP,SD,S	8907 MM	62
Pioche Pacific 279	PP,SD	8903 NG	50
Port of Tillamook Bay Locos	PA,PP	8908 TR	53
RF&P Diesel —58	PA,PP,PM	8909 RF	53
RF&P-EMD GP35/40/40-2	PA,PP,PS,DD	8906 MM	24
Seminole Gulf Rwy -41	PA,PP,PM	8906 RF	38
Sw Portland Cement Co. -53	PA,PP,PM	8905 RF	47
Swiss Krok's -58	PA,PP,PM	8906 RF	54
UP-EMD GP30	PA,PP	8910 MM	66
Utah Railway Alcos & EMDs	PA,PP	8901 TR	56
Vicksburg Route Power	PA,PP,PM	8904 TR	39
WC-EMD GP35/SD45/SW1200	PA,PP,PS,DD	8909 MM	32
WP:Baldwin 2-8-8-2 Pt 1	PA,PP,DD	8909 MM	60
WP:Baldwin 2-8-8-2 Pt 2	PA,PP,SD,S	8910 MM	60
P45 Self-Propelled Car Rosters			
Brill Bullets -64	PA,PP	8910 RF	59
C&O:Brill Gas-Electric	PA,PP	8901 MM	38
CTA Cars -64	PA,PP	8910 RF	59
Hawaii Consol. Rwy Mack Truck	SD	8903 NG	58
Hawaii Consol. Rwy Railcars	SD	8903 NG	58
Rail Car, Steam	PP,SD,DD	8907 NG	72
P5 Architecture			
Boston South Station	PA,PP	8906 TR	38
Bridge Tender Cabin, West Side	SD	8905 NG	63
Cumbres Stn	SD	8905 NG	70
St Louis Station	PP	8904 MR	148
Scenery Techniques	BR	8903 NG	89
Washington Union Station	PA,PP	8905 TR	30
P6 Reviews of Books and Videotapes on Railroads			
100 Years Capitol TR	BR	8909 RF	28
1218 Inaugural Run	BR	8901 ON	18
5 Miles of Family Ties	BR	8901 TR	64
50 Year - San Diego	BR	8909 RF	33
A Rainbow of Traction	BR	8903 TR	58
A Tale of Two Cities:NCNGRR	BR	8904 SM	40
Alaska RR	BR	8909 RF	31
Alvin F Stauffer - New Haven	BR	8911 MR	162
Anthracte RR's Hist Soc - Lehigh New Englan	BR	8910 MR	152
Allegheny Rails:Vol 1:B&O	BR	8903 SG	60
An American Journey By Rail	BR	8907 SG	49
Arkansas & Missouri Railroad	BR	8905 TR	68
Auto Parts Boxcars 60 Ft:Casodorph	BR	8903 MM	23
B&O Monongah Memories:Alderson	BR	8902 MM	22
B&O Steam Finale, Vol II	BR	8901 TR	64
Baja CA Rwy	BR	8901 RF	30
Baltimore Streetcars 1926	BR	8912 RF	21
Before Guilford	BR	8904 RF	17
Best of 1988	BR	8907 RF	23
Boston Malls Press - CN	BR	8906 MR	123
Brit Ry Modelers of N America - Brit Col Ry	BR	8911 MR	164
British Railway Modelers of N America - CP	BR	8911 MR	164
Brooklyn's Waterfront Rwy	BR	8901 RF	29
Bullet	BR	8909 RF	22
Baja Calif RRs	BR	8911 SG	54
Baja California Railways	BR	8903 TR	56
Baja California Rwy	BR	8903 NG	89
Berkshire and Texas Types:Farrell	BR	8902 MM	22
Bridge Line Blues (D&H)	BR	8912 TR	92
British Columbia Locomotives	BR	8907 RC	38
Brooklyn's Waterfront RRs	BR	8911 SG	54
Brooklyn's Waterfront Railways	BR	8904 TR	64
C&NW Memories 1970-80:Cook	BR	8910 MM	25
C&O Along the New River, WV	BR	8911 RJ	5
C&O:Allegheny Subdivision	BR	8907 SG	50
C&TS Video History	BR	8907 NG	88
CA Zephyr	BR	8912 MG	21
Cannon Ball Publications - LJ RR	BR	8901 MR	150
Carstens Publications - Rutland	BR	8912 MR	172
Cass Publications - New Zealand	BR	8906 MR	123
Cent Elec Railfan Assn - Traction	BR	8902 MR	46
Century Pullman Cars	BR	8908 BL	32
Chelsea Pub Inc - Union Station	BR	8901 MR	152
Clear Block Magazine	BR	8910 RF	35
CM Photo History	BR	8907 NG	88
CN: Oakville Sub	BR	8908 RF	20
Cumbres	BR	8906 RF	27
Canadian Trackside Guide 1989	BR	8906 TR	58
Carstens Track Design 2	BR	8909 RC	6
CDN Trackside Guide 1989:Bytown RR	BR	8908 MM	22
Century of Pullman Cars V1 Alphaist	BR	8902 MM	23
Challenger '82:WB Video Prod:UP	BR	8907 SG	48
Chama/Cumbres With a Little Chili	BR	8904 SM	41
Chama/Cumbres With a Little Chili	BR	8906 TR	63
Chessie, the Railroad Kitten	BR	8905 TR	62
Chessie-The Railroad Kitten:Dixon	BR	8902 MM	23
Chicago & North Western Memories	BR	8912 TR	91
Clinchfield Country	BR	8901 TR	65
Collier Crossing	BR	8908 TR	62
Colorado Midland: Daylight-Divide	BR	8906 TR	62
Colorado RR Struct:Vol I	BR	8904 SM	40
Colorado Rail Annual #17	BR	8910 SM	43
Continental Divide:S.W.Calgary,Canada	BR	8903 SG	60

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
Cotton Belt 819	VR	8908 TR	64
Country RR Station in America	BR	8903 TR	588
Cumbres	VR	8910 SM	42
D Carleton Railbooks - Seaboard	BR	8912 MR	174
D&H 1976/1986	BR	8911 RF	27
D&H, B&M, & MC RRs Before Guilford	BR	8904 TR	66
D&RG Photos, Early 1900S	BR	8911 NG	90
D&RGW NG Pgr Trains	VR	8911 NG	90
D&RGW NG Rotary Plow	VR	8911 NG	90
D&RGW History	BR	8905 NG	90
D,SP&P Sketchbook	BR	8901 NG	89
DDGM's F59PH: Birth	VR	8904 RF	20
Detroit to Jackson	BR	8901 RF	28
Donner Pass	VR	8909 RF	22
DT&I	BR	8908 RF	19
DT&IR:Transtel	BR	8902 MM	22
Detroit, Toledo, & Ironton, Vol. I	VR	8906 TR	64
Downeast Depots	BR	8909 TR	68
EBT:Kauffman Creative Svcs	VR	8907 SG	48
Euro Rails Model Importers Ltd - Swiss RR's	BR	8911 MR	150
Express Press Ltd - Cheyenne UP	BR	8906 MR	123
Echoes Down the Canyon	BR	8909 TR	64
Electric Frt Loco	BR	8903 NG	89
Electronic Projects:East to Bid	BR	8903 SG	61
Findlay-Holiday Film Corp - Colo RR's	VR	8905 MR	150
Fox Publications - Great Western	BR	8912 MR	176
Frisco 1522	VR	8907 RF	22
Fulton County NG	BR	8911 BL	12
Fiji Sugar Cane Trains	BR	8905 NG	90
Focus on Rails	BR	8909 TR	64
Friendly Svc Route:Erie-Lack:Revelation Video	VR	8907 SG	48
Gary L Sturm - RR Frequencies	BR	8901 MR	148
GE Adv. Generation D-E, Elec. Locos	BR	8909 TR	68
GE Diesel Loco	BR	8909 RF	32
Golden West Books - Baja Cal RRs	BR	8902 MR	47
Golden West Books - NP Diesel Era	BR	8910 MR	154
Golden West/Kalmbach - LA&SL RR	BR	8904 MR	128
Great Days:Canadian Steam	BR	8907 RF	14
Green Frog Productions - DT&I	VR	8906 MR	144
Greg Scholl Video Productions - Steam Locos	VR	8912 MR	199
Guayaquil & Quito	VR	8910 RF	66
Guide: Tourist RR	BR	8908 BL	32
Galloping Geese on the RGS	BR	8910 SM	43
Georgetown Loop	VR	8909 NG	89
Georgetown Loop Railroad	VR	8910 SM	42
Gerald M. Best's California Lids.	VR	8910 TR	64
Great Md RRs:V2:Hopewell Prod	VR	8907 SG	48
Great Model RRs:V3	VR	8911 SG	53
Greenberg's AF Factory Manual	BR	8903 SG	61
Greenberg's AF Price Guides	BR	8911 SG	54
Greenberg's AF Price Guide	BR	8903 SG	62
Guayaquil & Quito:3'6	VR	8910 SM	42
Guilford Diesels on the D&H	VR	8905 TR	66
Guilford: Five Years of Change	BR	8906 TR	58
History of UP: Cheyenne	BR	8911 RJ	5
Hist. of Union Pacific in Cheyenne	BR	8905 TR	63
Hornby Zero 1	BR	8901 NG	89
Howard Fogg and the Del Image:Scala	BR	8904 MM	22
Interurban Pr - St Louis Traction	BR	8901 MR	150
Interurban Press - Diesels	BR	8911 MR	162
Interurban Press/Kalmbach - Amtrak	BR	8902 MR	46
Illinois Central, Past & Present	VR	8912 TR	90
Iron Workhorse	BR	8903 SG	61
Jersey:PC & CNJ:Revelation Video	VR	8907 SG	48
Kalmbach - C&NW	BR	8912 MR	174
Kalmbach - PA RR	BR	8912 MR	172
Kindig's Diesels, Part I	VR	8910 TR	85
Lehigh VI Transit	BR	8909 RF	30
LGB Catalog	BR	8905 NG	90
LGB Magazine	MR	8907 NG	88
LNE Retrospect	BR	8903 RF	16
London Underground Handbook	BR	8908 RF	19
Lv Transit Co.'s Liberty Bell Route	BR	8909 TR	66
Lehigh & New England RR	BR	8909 TR	68
Loco Bldrs, Fm & Lima	BR	8909 NG	89
Los Angeles & Salt Lake RR:Signor	BR	8902 MM	21
Lost Railroads of New England	BR	8909 TR	66
Magnificent GG1	VR	8904 RF	19
Mark 1 Video - Lehigh	VR	8904 MR	127
Mason Dixon Productions - N&W A 2-8-8-4	VR	8905 MR	151
Mason Dixon Productions - N&W J 4-8-4	VR	8905 MR	151
Me 2 Ft Structures	BR	8907 NG	88
Meatball Productions - Brooklyn Rys	BR	8904 MR	129
Michigan Fast Freight	VR	8908 BL	33
Mid Continent RHS - Amateur RR Photography	BR	8911 MR	161
Milw Electrics	BR	8904 RF	16
MKT	VR	8908 RF	24
MY RR	VR	8908 RF	24
Mallets, Casper Lbr Co.	BR	8901 RC	38
Mallets, Mendocino Coast	BR	8901 RC	38
McCulloch's Wonder	BR	8903 TR	57
Memories Tape One:Hawk Mtn RR Hist:Reading	VR	8907 SG	48
Memories of the CNJ, B&O, & RDG	VR	8902 TR	60
Michigan's Railroads	BR	8903 SG	62
Mid-Continent Steam Story	VR	8912 TR	86
Milwaukee Electrics:Holley	BR	8903 MM	23
Missouri-Kansas-Texas	VR	8905 TR	68
Mt Tamalpais RR	VR	8905 NG	90

CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE	CLASSIFICATION KEYWORDS	CONTENTS NOTES	PERIODICAL DATE	PAGE
Mt.Diablo & San Jose RR	BR	8903	NG 89	Snow Plows With CN F7's	VR	8908	TR 63
N&W 1218	VR	8901	RF 31	Steam II, Pennsy-Rdg-Seashore Lines	VR	8910	TR 65
N&W 2nd Generation Dals:Withers Pub	BR	8907	MM 25	Steam Loco Directory of N. America	BR	8906	TR 58
N&W:3 in Steam	VR	8902	RF 20	Steam Loco of RDG & P&R:Wiewasser	BR	8902	MM 21
N-Trak Module Manual:N-Trak	BR	8902	MM 21	Steam Loco of Santa Fe:Ellington	BR	8910	MM 24
Neff Video Productions - CSX	VR	8912	MR 20	Steam Pgr Svc Directory:Tourist RR's	BR	8907	SG 50
NG Data Book	BR	8911	BL 12	Steam at Oakville	BR	8905	TR 62
NG Plan Book, Colo.	BR	8907	NG 88	Steam at Oakville:CN	BR	8907	SG 49
NG Rwy, Calshot UK	BR	8911	NG 90	Steaming up Tamalpais	VR	8911	SG 53
NG Rwy, Isle of Man	BR	8911	NG 90	Steel Rails to the Sunrise:Ziel	BR	8903	MM 23
NG Rwy's, Roumania	BR	8911	NG 90	Stephans' RMC Index	BR	8907	SG 49
NH Division	BR	8903	RF 14	Stock Cars of Santa Fe:Ellington	BR	8911	MM 25
NH Power	BR	8905	RF 20	Structures:SR&RL; W,W&F	BR	8901	NG 89
NJ Int Inc/Kalmbach - Milw Electric	BR	8902	MR 46	Sugar Country Shortline	BR	8912	TR 91
NJ International Inc - PA Heavyweights	BR	8911	MR 164	Surfliners:Stephenson	BR	8905	MM 23
NP Diesel Era	BR	8904	RF 17	The Center For Western Studies - Stations	BR	8904	MR 128
NP Diesel Era 1945-70:Schrenk/Frey	BR	8903	MM 23	The Super Chief	VR	8912	MG 21
NP '87/88	VR	8905	RF 27	TLC Publishing/Kalmbach - Chessie	BR	8906	MR 122
NY & Long Branch	VR	8906	RF 28	Trainland Video - N&W & Southern	VR	8901	MR 42
Narrow Gauge in Antonito/Chama	VR	8910	SM 42	Trans Anglo Books - D&HR	BR	8912	MR 172
Narrow Gauge in Silver Plume, Co	VR	8910	SM 42	Trans Anglo Books - Orange Co	BR	8912	MR 177
Narrow Gauge to Jerome, Az	BR	8910	SM 43	Trans Anglo Books - Surfliners	BR	8911	MR 161
Nevada Nor.	VR	8905	NG 90	Trans-Europe Enterprises - Austrian RR's	VR	8905	MR 152
New Haven Mainline	VR	8903	SG 60	Tehachapi: Tonnage and TOFC	VR	8902	TR 64
Northern Pacific Diesel Era	BR	8904	TR 63	The 400 Story:C&NW Pgr Trains	BR	8907	SG 49
O L Graphics/Kalmbach - Clinchfield	BR	8901	MR 148	The 400 Story:Scribbins	BR	8901	MM 26
Oldline Graphics/Kalmbach - New Eng RR's	BR	8906	MR 122	The Broadway Limited	BR	8904	TR 62
Paris Metro Handbook	BR	8905	RF 19	The Frisco Filly	VR	8902	TR 61
Philadelphia Improvements	BR	8910	RF 30	The Gotthard Bahn	VR	8910	SM 42
Potomac Chapter NRHA/Kalmbach - B&O	BR	8901	MR 148	The Los Angeles & Salt Lake RR. Co.	BR	8904	TR 62
Potomac Chapter NRHS/Kalmbach - B&O	BR	8901	MR 148	The Milwaukee Electrics	BR	8903	TR 58
Price & Sieber - San Diego Co Sta	BR	8901	MR 152	The Surfliners	BR	8909	TR 64
PRR Frt Car Lettering:Middle Div.	BR	8907	MM 24	The United Verde & Pacific Rwy	BR	8910	SM 43
PRR Glory I	VR	8912	RF 32	The Water Level Route	VR	8902	TR 62
PRR Glory II	VR	8912	RF 32	Tidewater Triangle	BR	8903	SG 61
PRR Steam	BR	8909	RF 32	Tin Feathers & Gasoline:RGS	BR	8910	SM 43
PRR:Passenger Car	BR,PS	8901	RC 38	Train Times in Mexico	BR	8903	TR 56
Pgr Train Annual; '88	BR	8902	RF 17	Two Feet to Tidewater	BR	8907	RC 40
Passenger Train Annual 1988	BR	8903	TR 57	Union Sta Pub/Kalmbach - Seaboard	BR	8901	MR 150
Passenger Train Annual:Amtrak Roster	BR	8907	SG 50	Union Trolley Line	BR	8906	RF 19
Penn Central Power	BR	8903	SG 61	UP - LA&SL Route	BR	8910	RF 30
Pennsy Diesel Years, Vols 1 & 2	BR	8912	TR 91	UP:Cheyenne	BR	8906	RF 19
Pennsy Diesel Years:Yanosey	BR	8902	MM 22	US RR Atlas:Rand McNally	BR	8907	SG 49
Pere Marquette 1225	VR	8908	TR 65	Union Pacific Cheyenne:Darwin	BR	8904	MM 21
Pict. Hist.Of RRs in Brit. Columbia	BR	8903	TR 57	Union Station	BR	8903	TR 58
Pictorial Railways of New Zealand	BR	8905	TR 63	United Verde & Pacific Rwy	BR	8901	NG 89
Plastic Mdls Handbook	BR	8911	SG 54	Victorian RR Stns. of Long Island	BR	8903	TR 58
Plow Extras	VR	8908	TR 63	W B Video Prod/Kalmbach - D&RGW	VR	8904	MR 127
Railpace/Kalmbach - Broadway Ltd	BR	8904	MR 129	West Chester Branch	BR	8907	RF 14
Railscene	VR	8912	RF 28	Westrail Publishers - WP	BR	8911	MR 161
RGS	VR	8905	NG 90	Whitecap Books Ltd - RR of Brit Col	BR	8902	MR 47
Rio Grande Zephyr	VR	8903	RF 54	Withers Oub/Kalmbach - Seaboard	BR	8901	MR 150
Robert F Lord - Stations	BR	8910	MR 154	Withers Pub/Kalmbach - Seaboard	BR	8901	MR 150
Romanian Lumber Steam	BR	8912	RF 22	WP&Y:History	BR	8902	RC 34
RPO Fastmail	VR	8911	MG 42	Wyoming VI Trolleys	BR	8902	RF 16
RR Stns of San Diego County	BR	8903	TR 58	Western Steam Pictorial	BR	8907	SG 50
RRs of N. America	BR	8908	BL 32	Windy City Hotspots, V.1: McCook	VR	8906	TR 64
RRs of St. Louis	VR	8911	SG 53	Wiscasset & Quebec Railroad	BR	8907	RC 40
Ryde Line	BR	8911	RF 22	P6 Railroad Operations & Procedures			
Rail Trek:Eastern Roads:Revelation Video	VR	8911	SG 53	BTI Takes Over C&NW Riverton Brnch.	PA,PP	8904	TR 24
Railcar Directory	BR	8905	NG 90	C&NW Left-Handed Running	PA,PP	8901	TR 34
Railfanning the Durango & Silverton	BR	8906	TR 82	Colorado's Joint Line (SF, BN, RG)	PA,PP,PM	8904	TR 60
Rails Beyond the Rutland	BR	8912	TR 92	Doswell, Virginia	PA,PP,PM	8905	TR 60
Rails Thru the Orange Groves, Vol 1	BR	8912	TR 93	Elizabeth, New Jersey	PA,PP,PM	8907	TR 60
Revelation Video:Horseshoe Curve	VR	8907	SG 48	Essex, Montana	PA,PP,PM	8912	TR 84
Riding That Newrvr Train:Huddleston	BR	8907	MM 24	Filling Car Orders from Industries	PP,PA	8907	RJ 30
Rwy Steamships, Ontario	BR	8909	NG 89	Fairless Works Steel Mill Loco	PA,PP	8907	TR 46
Seaboard Sys Loco	BR	8912	RF 21	Green River, Wyoming	PA,PP,PM	8909	TR 62
Short Line Doodlebug	BR	8907	RF 16	Horseshoe Curve	PA,PP,PM	8903	TR 54
Skyfire Camrac Studios - Nevada Northern	VR	8906	MR 144	Montreal	PA,PP,PM	8911	TR 76
SLSF #1522:4-8-2	VR	8903	RF 55	NS Roadtrailers	PA,PP,PM	8906	TR 28
Southern Ry Hist Assn - S Ry Stds	BR	8910	MR 154	Nevada, Iowa	PA,PP,PM	8910	TR 62
SP	VR	8907	RF 24	New York Cross Harbor RR	PA,PP,PM	8901	TR 36
SP 1941	VR	8901	ON 19	Operations at Freight Houses	PP,PA	8907	RJ 26
SP in Oregon	BR	8901	RC 36	PP&L Shamokin Plant	PA,PP	8902	RC 90
SP: My RR	VR	8912	MG 21	Pennsy's Antennas:Dvmt of PC Commo	PA,PP,MP	8907	SG 18
Spencer Shops	VR	8901	RF 32	SP's Bailey Branch, Oregon	PA,PP,PM	8902	TR 53
SR Standards(1916 On):SR Hist Assoc	BR	8907	MM 24	Southern's Rathole	PA,PP,PM	8908	TR 60
SR&RL Loco	BR	8901	NG 89	Tuscola, Illinois	PA,PP,PM	8906	TR 60
Steam to L.A.	VR	8910	RF 34	P6 Railroad Equipment Suppliers			
Steaming to LA	VR	8911	RF 25	Republic Locomotive Rebuilders	PA,PP	8908	TR 44
Sunrise Special Ltd Pub - LI RR Sta	BR	8901	MR 152	SP's Bailey Branch, Oregon	PA,PP,PM	8902	TR 53
Sacramento Northern:Catenary Video Prod	VR	8907	SG 48	Southern's Rathole	PA,PP,PM	8908	TR 60
Saluda Mtn: America's Steepest	VR	8912	TR 87	Tuscola, Illinois	PA,PP,PM	8906	TR 60
Santa Fe Modeler	BR	8904	MM 20	Republic Locomotive Rebuilders	PA,PP	8908	TR 44
Seaboard Air Line Ry Album	BR	8901	TR 65				
Seaboard Motive Power	BR	8901	TR 66				
Silver Rails & Golden Memories	VR	8910	TR 66				
Small Sc Outdoor Rwy Magazine	MR	8907	NG 88				

